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Farm and Ranch REVIEW

SEPTEMBER, 1952



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OWNERS TELL YOU!

**HOW CATERPILLAR
SAVES MONEY ON
THE FARM!**

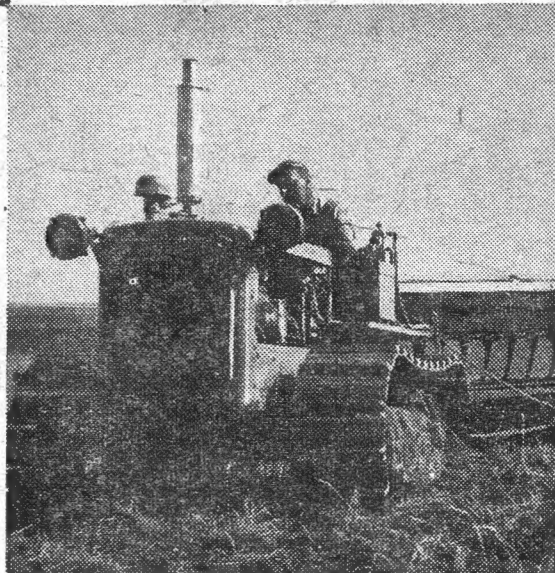


(Above) "Remarkable!" says Mr. L. H. Campbell, of Campbell Bros., Avonlea, Sask., owners of a 43-h.p. "CAT" D4. He goes on to say:

"No other machine its size could do this kind of work." You'd say the same if you saw how he used it, with ditcher attachment, dredging sloughs.

(Below) Mr. G. B. Shuck of Rochfort Bridge, Alta., reports on his "CAT" D4:

"It has worked over 22,000 hours in the past 10 years, discing, seeding, and pulling four 16" plows. Average diesel fuel consumption is 1 3/4 gallons per hour. Steering and master clutch have never needed repairs. I put on one set of link assemblies and track rollers and they are still in A-1 condition."

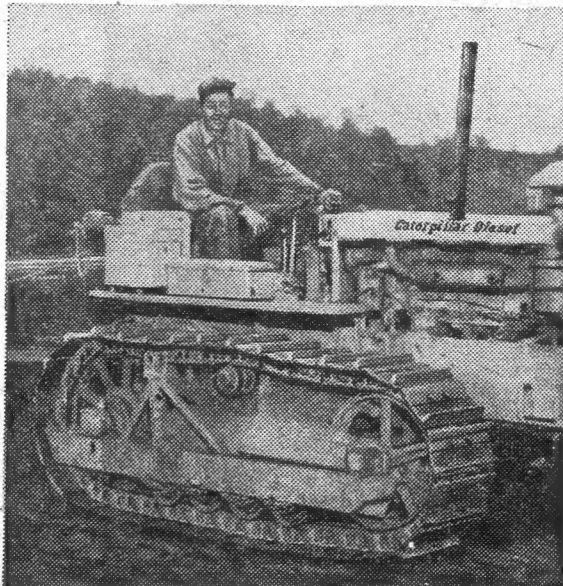


(Above) "You can't beat 'CAT' D2 economy!" asserts Mr. Albert Anderst of Hilda, Alta.:

"I just finished seeding 50 acres of oats with a 12' press drill on only 10 gallons of diesel fuel. That's 4c per acre! Gas tractor owners won't believe how little fuel a D2 uses!"

(Below) "Repairs? Not one in 5 years!" says Mr. Jerome Bechard, Lejord, Sask., of his "CAT" D4 purchased in 1947.

"What's more, I can seed and till 100 acres a day at a diesel fuel cost of less than 3c per acre! That kind of economy means bigger profits!"



(Above) Master Farmer Emil Cammaert of Rockyford, Alta., a constant "CAT" user since 1920 has this to say about his 32-h.p. D2:

"Working in 4th gear with a 15' disc harrow, the D2 enables me to seed about 80 acres a day. Economy? Yes, diesel fuel consumption of 21 gallons per 14-hour day is what I call economy! And," adds Mr. Cammaert, "our D2 was a 'life-saver' in the fall of '51 when wet conditions put operations at a standstill elsewhere!"



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"CATERPILLAR" Diesel Tractors.

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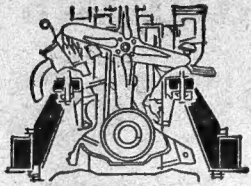
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There's a "CAT"-built Diesel Tractor for every farm power need. Ask your "CATERPILLAR" distributor to show you the 32-h.p. D2 . . . the 43-h.p. D4 . . . the power-packed 66-h.p. D6 . . . the 81-h.p. D7 and the mighty 130-h.p. D8. All are built to "CATERPILLAR'S" uncompromising standards . . . all are built to do a better job for you.

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CENTREPOINT POWER

Engine vibration and power impulses are "screened out" — isolated from driver and passengers. Engine rides flexibly suspended between new high-side mountings . . . centred, poised, cushioned in rubber.



EXTRA LARGE BRAKES

Chevrolet's Jumbo-Drum brakes, with their big 11-inch brake drums, apply more leverage for more stopping power. Stops are smoother, safer, with less driver effort. Bonded linings last up to twice as long.



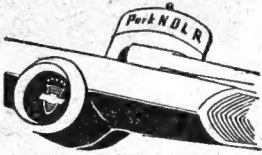
UNITIZED KNEE-ACTION RIDE

Chevrolet's famous Knee-Action ride is now even softer, smoother. New shock absorber action smoothes bumps and jolts more quickly and effectively than ever.



POWERFUL VALVE-IN-HEAD ENGINE

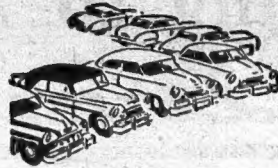
Teamed with Powerglide* is the powerful valve-in-head engine — an outstanding performer! This Powerglide engine's Hydraulic-Hushed valve lifters are another important Chevrolet exclusive. *(Powerglide automatic transmission available on De-Luxe models at extra cost.)



POWERGLIDE AUTOMATIC TRANSMISSION

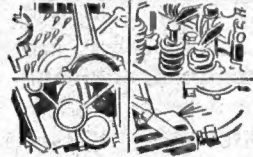
It's an oil-smooth, oil-cooled automatic transmission. It's simpler with fewer parts to wear or require adjustment. It's smoother because oil does it all without complicated intermediate gears. Optional on De-Luxe models at extra cost.

See all these EXTRA features of Chevrolet



GORGEOUS NEW COLORS

Choose from a wide array of rich beautiful new color ensembles — rich, fresh and sparkling. Distinctive new De-Luxe interiors are color-matched to the exterior body colors for new color harmony inside and out.



4-WAY

ENGINE LUBRICATION

Chevrolet's exclusive engine lubricating system supplies exactly the right kind and amount of lubrication to each moving part. It helps Chevrolet's proved valve-in-head engine serve you better and longer for less!



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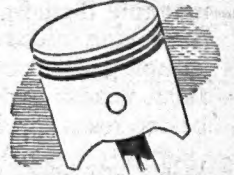
Fisher Body sets the standard in the automobile industry — for styling, for craftsmanship, for comfort and convenience! And Fisher Unisteel construction guards you with the solid strength of steel welded to steel . . . above you, beneath you, all around you.



EXTRA-EASY

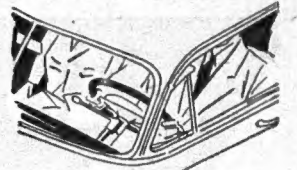
CENTRE-POINT STEERING

Control is centred between the front wheels instead of behind the left front wheel. This advanced steering geometry makes Chevrolet surprisingly easy to steer, manoeuvre and park.



CAST IRON ALLOY PISTONS

Pistons are formed from the same material as the cylinder block — expand and contract at the same rate. This helps maintain a precise fit at all engine temperatures — reduces piston wear and oil consumption!

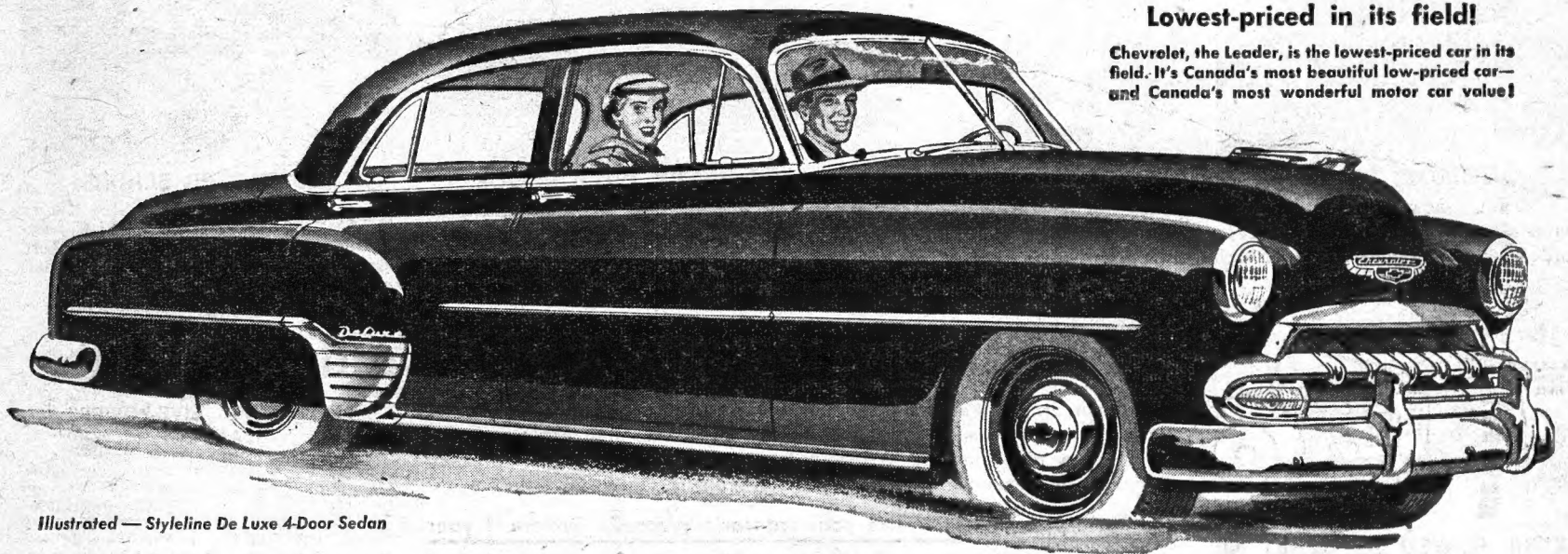


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Reduces Glare, Heat and Fatigue

Chevrolet offers "Shade-Lite" glass with exclusive, shaded windshield-tinting for your extra protection. "Shade-Lite" glass all 'round reduces glare and heat, helps you drive more safely and comfortably. (Optional at extra cost)

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Illustrated — Styleline De Luxe 4-Door Sedan

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No other car in Chevrolet's field offers you such a wonderful array of extra features. Yet Chevrolet is the lowest-priced fine car . . . Come see . . . come drive . . . the car that rates first in popularity . . . first in features . . . first in fine-car quality . . . at lowest cost!

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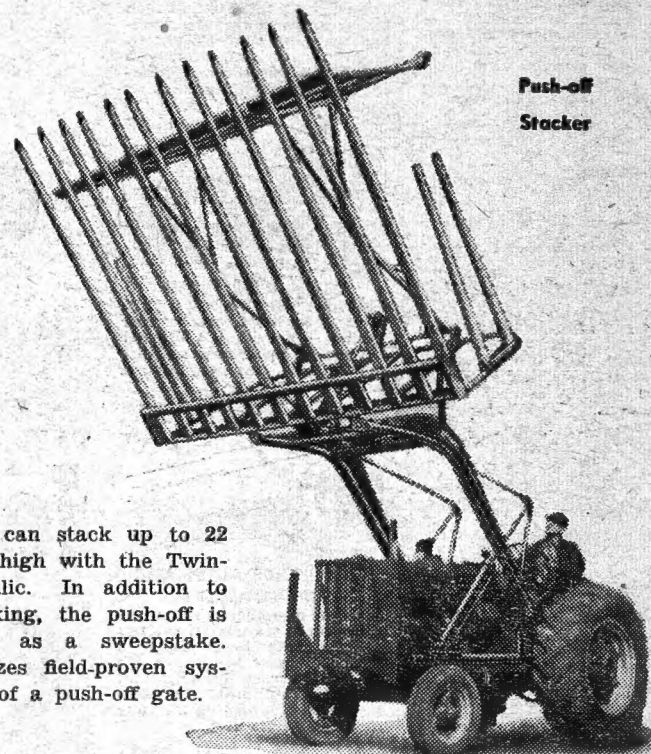
Whatever make or model of farm tractor you have there is a Twin-Draulic Farm Loader designed to fit it.

Get more work and more profit from your farm tractor every month of the year. Multiply its jobs and its earnings with a field-proven Twin-Draulic Loader. Write, or mail the coupon below, today.

ADAPTABLE TO MANY JOBS

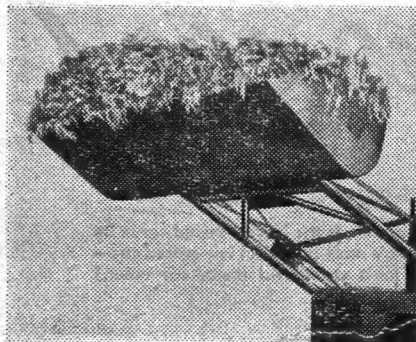
Another Nance Co. Quality Line

Tailor Made for All Tractors! Custom Made for Ford and Ferguson Tractors!



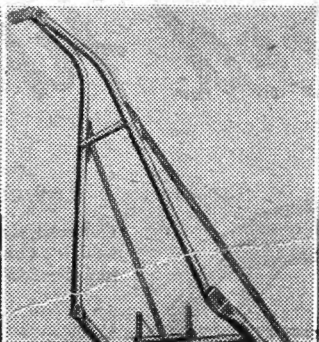
Push-off
Stacker

You can stack up to 22 feet high with the Twin-Draulic. In addition to stacking, the push-off is ideal as a sweepstake. Utilizes field-proven system of a push-off gate.



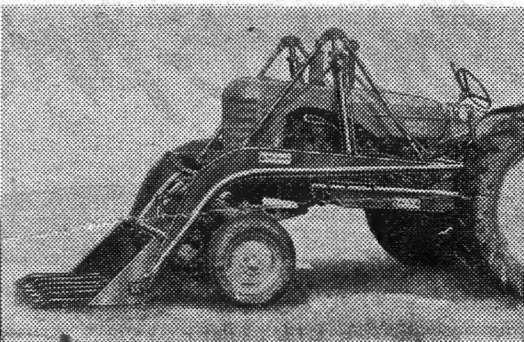
VOLUME SCOOP

For grain, snow, and other bulky materials. Big capacity, easily installed. 80 inches wide, 24 inches high.



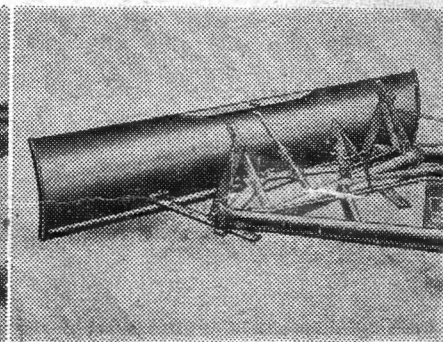
EXTENSION BOOM

Fits all Twin-Draulic Loaders. Simple to attach or dismount. Ideal for stacking, or removing hay from stack with hay fork.



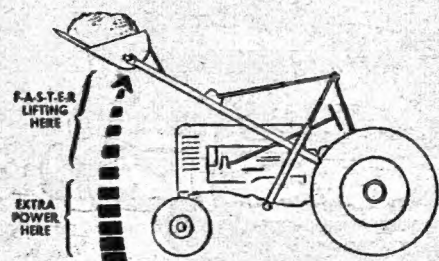
HEAVY DUTY SCOOP

40 inches wide, 36 inches long, 18 inches deep. Will lift over 2,000 pounds to 11 feet dumping clearance on most tractors.



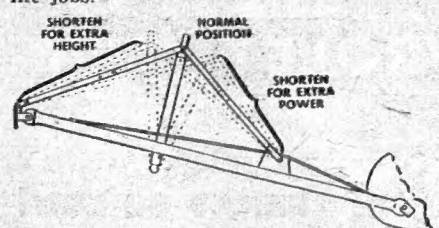
BULLDOZER BLADES

(STRAIGHT & ANGLE) HEAVY-DUTY ADJUSTABLE, Angle Blade, 5 positions right to left, angle adjustment plus pitch adjustment. RIGID TYPE: Adjustable to variable pitch only.



EXTRA POWER AT START OF LIFT

Built-in automatic speed changes give EXTRA power at start of lift, making it easier to tear loose dirt, gravel, manure, etc. Also gives loader EXTRA speed — the higher you go the faster it raises, making it ideal stacking and other high lift jobs.



EXCLUSIVE ADJUSTABLE RATIO MECHANISM

A Twin-Draulic designed and patented feature allows pull bars to be lengthened or shortened, giving extra length for high jobs and extra power for heavy ones. Whatever your job, the Twin-Draulic may be adjusted to do it.

The Loader that has no cylinder trouble

The Twin-Draulic Farm Loader has many exclusive features. No other farm loader offers such simplified construction. One man can mount the loader in a few minutes. After loading job is finished, loader is easily detached by removing four pins, and tractor is ready for other work.

The Twin-Draulic can utilize your tractor's hydraulic system if your tractor is so equipped, or can be obtained complete with independent hydraulic system of its own.

MITY MIGET "LIVE-POWER" TAKE-OFF

Thoroughly tested and proved by actual farm use — here's the answer to every farmers' wish for an EXTRA power take-off. Installed in a few minutes time this "small but mighty" power take-off will operate a hydraulic pump while the regular power take-off is in use for powering other farm machinery. Or can be used as a regular power take-off on tractors not so equipped.

Write for further information.

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The Twin-Draulic has been approved by International Harvester Co., for use with Farmall Cub and Super C tractors. They are also custom built for Ford and Ferguson Tractors, with side entry features. Models are also available for all other popular makes of tractors, all large standard, row crop and wide front tractors.

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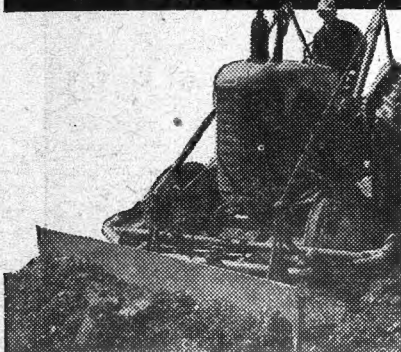
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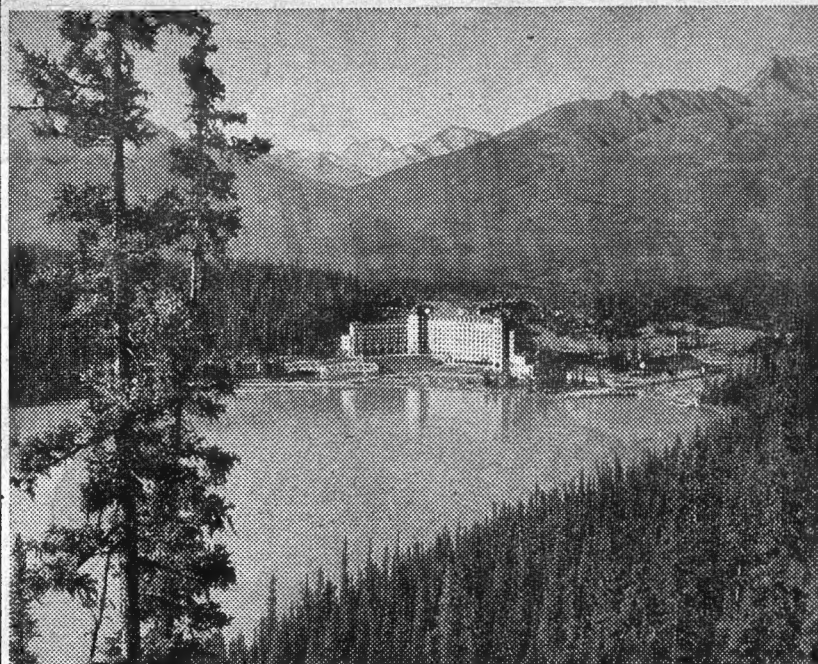
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Lake Louise



Canadian Pacific Railway Photo

One Million Tractors Made in 1951

ONE million tractors were made in the world in 1951. This estimate is given in a United Nations study, "The European Tractor Industry in the Setting of the World Market". More than half the number of tractors manufactured last year were produced in the United States.

The study says North America has more than two-thirds of the world tractor fleet, while it has only 18 per cent of the world's arable land. Latin America, Asia, and Africa own less than five per cent of the tractors in the world, but account for nearly half of the world's arable land. Europe has about 25 per cent of the world tractor fleet, and 32 per cent of the world's arable land.

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Graphic Arts Bldg., Calgary, Alberta

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Founded in 1905 by Charles W. Peterson

No.

James H. Gray, Editor

P. Peterson, Advertising Manager

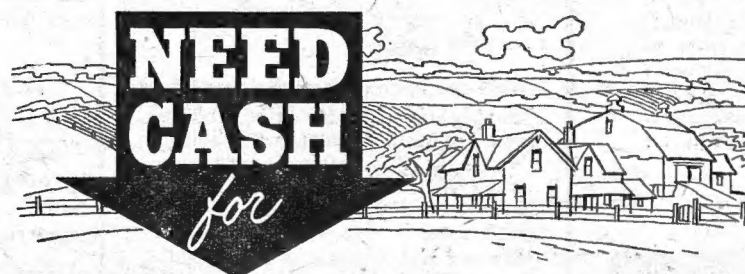
CONTENTS

| | Page |
|--------------------------|---------|
| Editorials | 7 and 8 |
| The Peasants Revolt | 9 |
| Dr. Morley's Sermon | 10 |
| Plans and Summerfallow | 12 |
| Kerry Wood | 16 |
| The Handwriting Column | 18 |
| The Garden Page | 22 |
| Ever Seen a Rain Bird? | 26 |
| "I Saw . . ." | 30 |
| The Secret of Good Candy | 32 |
| Aunt Sal | 34 |

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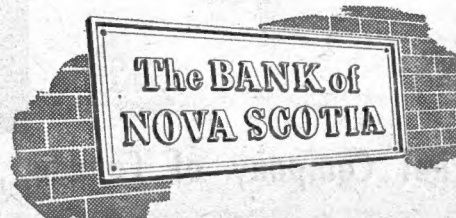
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What is an alloy, Dad?



"An alloy, son, is just a mixture of two or more metals. This 'Monel' line, for instance, is a mixture of nickel and copper. The stainless steel sink in our kitchen is an alloy of nickel, chromium and iron. Mother's white gold watch is an alloy of nickel and gold."



"Why do they mix metals that way?"
 "Simply to make a better metal for some particular purpose. This 'Monel' line, for example, is very strong yet bends easily and most important, it resists rust, even when used in salt water. Mother likes our sink because it is easy to keep clean and always looks bright."



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"Oh no, but there are over 3,000 alloys that do contain nickel. That is why Inco has to produce more than 250 million pounds of nickel a year."



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The Farm and Ranch Editorial Page...

This sort of cowardice can ruin our democracy

THERE were two factors in the selection of General Eisenhower and Governor Stevenson, as U.S. presidential candidates by the Republican and Democratic parties, which seem to us of special significance. One was the way in which the people themselves took the choice out of the hands of the political bosses; the second was the way in which Americans in all walks of life are prepared to engaged actively in politics.

It has always seemed to us, particularly in times of crisis, that there is a sure instinct in democratic people that leads them to the choice of men of outstanding character to lead them. In normal times, as we used to think of normal times, the people will often tolerate the second-rate. But when trouble brews, they want men of character to be at the helm. In Eisenhower and Stevenson, the American major parties chose two natural-born leaders of men whose character places them head and shoulders above the common level. Neither of the party hierarchies wanted either of them. But the will of the people was so strong that both were quickly nominated.

But was this, were these nominations of men of such sterling qualities, but the natural result of a system where political participation of all classes and groups is part of the normal way of life? We cannot help but wonder.

Behind both the Eisenhower and Stevenson campaign, for example, were some of the outstanding leaders of American

business as well as some of the top farm and labor leaders. This is the sort of thing that is rapidly becoming a rarity in Canada. Over a period of years, we Canadians have got ourselves into a state of mind that makes participation in politics almost akin to picking pockets or buffeting cripples off sidewalks. We turn up our noses at politicians and smugly tell each other that politics is a nasty business.

Well let's face it? Can anything that is basically unclean, that is fundamentally "nasty business" attract such men as Eisenhower and Stevenson? Or, for that matter, could it attract such men as L. S. St. Laurent, John Diefenbaker and M. J. Coldwell; all men of great ability and sterling character? We think not. What we are suffering from in Canada is not political corruption but political cowardice on the part of our business leaders. They have succumbed to mass cowardice to the extent that, in literally thousands of businesses, a conscientious citizen can engage in politics only at the cost of his job and his livelihood.

The fetish of being non-political has been carried to such an extreme that it has resulted in all governments, from the local town councils to the national government, being filled with mediocrities. Why? Because business feels that it will be unprofitable for it if any of its executives engage in political activity, even to the extent of taking an active part on behalf of a party in an election campaign. In the United States, on the

other hand, every election campaign brings on a veritable nation-wide rush of outstanding citizens to stand up and be counted for one party or the other.

It ought to be recalled to Canadian business that this country was not built by political geldings who were afraid to stand up and be counted. Responsible government was not won by the boycott of political activity. If that had then been the fashion, Louis Papineau would have stayed on his seignory and William Lyon Mackenzie would have minded his Toronto print-shop.

Even in more recent years in the west, most of us can remember when being elected mayor of a city or town was an honor prized by all business men. Today their successors will willingly waste days on end chasing their tails around service club projects and boards of trade activities, but will be horrified at the suggestion they take part in a political campaign.

Well, what right have they to do so much complaining about taxes and the way the country is run? What right have they to criticize any politician or any political party? What right have they to harangue each other about threats of "socialism" or "communism" when they dive under the bed when candidates are being selected? None at all, but that hardly stops them from doing so.

We don't think that business men as a class have any special quality that makes them superior to non-businessmen or farmers. But we are becoming increasingly impatient with their widening boycott of all forms of political activity. To function, democracy must call upon all the intelligence, character and ability of all classes of society. It won't work unless we are all represented as it functions. Business men who do not have special talents, at least have special training. There is room for both talent and training in our system. But they are setting a disastrous precedent for, by boycotting politics and blackguarding politicians simultaneously, they are doing a termite job on democracy.

Don't wait till Thanksgiving to be thankful for the Wheat Board

LET'S take time out this harvest to be grateful that the biggest crop of grain we ever grew will be marketed through the Wheat Board. And let's do it often.

There'll be problems aplenty between now and freeze-up. First will storage. Then, with strict delivery quotas everywhere, there'll be the problem for many of merely paying for harvesting costs. But, beset on every side with difficulties, the farmers will not have to worry about whether they can get enough out of their bumper crop eventually to save them from bankruptcy. They can harvest this crop with great peace of mind, thanks to the existence of the Wheat Board.

Why does the Farm and Ranch seize every such opportunity to praise the Wheat Board? Because the Wheat Board is the best thing that ever happened to the West and to Canada. Because, as we all grow older, the young generation of farmers may not truly appreciate how fortunate they are that the conditions that applied in the 1920's and 1930's no longer plague producers.

Then, too, some of our older readers

may occasionally lose sight of the kind of the world we live in. Not only did we raise the biggest crop in history, the United States crop was also of record proportions. If the Winnipeg Grain Exchange and Chicago Board of Trade had been operating without restrictions, this is the kind of a crop that would have spelled ruin for farmers. We'd have again faced the prospect of burning our grain in our furnaces this winter because it would have been cheaper than coal, and we'd have had no money for coal.

The old-fashioned and out-moded futures market could handle surpluses in only one way — by reducing prices until price, and price alone, brought buyers into the market. But as the McFarland Board demonstrated for all time during the depression, a time arrives when even calamitous price cuts will not attract buyers.

This year, and every year under the Wheat Board, the farmers know what price they can expect to get when they plant their crop. Naturally, not all the credit for this can go to the Wheat Board marketing system. A very substantial part must go to the floor price policy of the United States

Government. Another and perhaps more important credit belongs to the enlightened policy of the United States Government which has given dollars to our customers with which they have been able to buy Canadian wheat. Without these aids, the Wheat Board could not have done the job it has done.

Having said that, it is important to add that the Wheat Board has more than taken advantage of the help we have obtained from the United States. It went out, last year, and did, a merchandising job of marketing our wheat the like of which was never done before. It did it at a price that was highly profitable to Canadian producers. It did it by going out into the world and searching for users for our wheat. In this it was aided by the private trade that, too, has turned its back on the futures market. These private traders ferreted out importers that had never before used Canadian wheat. They, too, did a magnificent merchandising job.

They did it, all agencies who had any part in the operations, without resorting to the ancient rule that only drastic price cutting would attract customers. In short, they did it by ignoring price altogether and concentrating on finding possible users. They "sold" their customers on the advantages of using Canadian wheat, just as automobile

Farm and Ranch Editorials

(Continued)

dealers and combine manufacturers sell farmers on the advantage of using their machines. They merchandised our wheat, in the broadest and finest sense of the word.

In the process they exposed forever the fundamental fallacy of the futures market system, and vindicated the judgment of the pioneer prairie farm leaders. The fallacy was in ignoring what Marshall called the theory of marginal utility. It can be simply stated: the existence of a minute surplus of any commodity in any given market can result in a calamitous drop in the price of that commodity. If the demand for wheat precisely matches the production, the price may be \$2 a bushel. But if the production should exceed the demand by a quarter of one per cent the unwanted surplus might drive the price down to \$1 a bushel.

The Wheat Board, aided by American fiscal and foreign policy, has solved the problem of managing the marginal surplus. Last year, for example, the surplus of off-grade wheat was far greater than even the broadest conception of "marginal" could have been. Yet even this real glut was managed by the board so that the producers were not ruined. This was the goal that our pioneer leaders sought. No single group of

men have ever been so right about anything as they were right about the inadequacy of the futures market system.

The performance of the Board has produced another interesting sidelight. It was once assumed that the futures market provided a meeting place for all the buyers and sellers of wheat. But we have now discovered that the world boasts thousands of users of wheat who never came to this market. It has been in searching out these users, and getting them to use Canadian wheat, that the Wheat Board and also the private trade, did such a magnificent service for the farmers of the Prairies.

★

The people decide, so that settles that

AS the election returns came in in Alberta, we were reminded of a sign we once saw in the office of an eastern tycoon. It read:

"The boss may not always be right; but remember, he's always the boss."

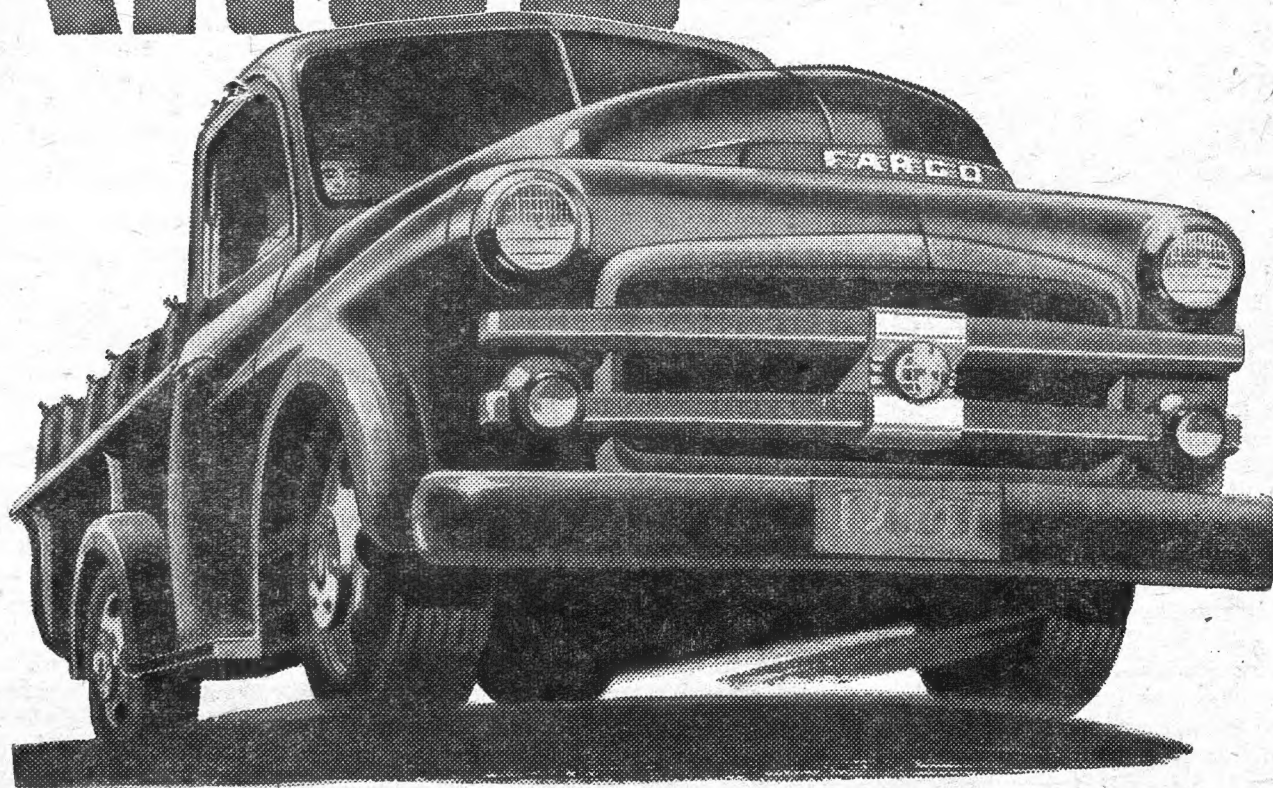
In a democracy, the people may and perhaps often do exercise their right to be

wrong, but when the people decide something, that should be it. During the last several years, the Farm and Ranch has often found itself in profound disagreement with the policies of Premier Manning's government. We raised, what seemed to us to be fundamental issues, persistently and vigorously. Many of these questions were thoroughly aired during the election campaign. On questions of principle, the farmers of Alberta were fortunate indeed in having a clear choice between the Liberal programme and the Manning programme. The farmers chose to endorse the record of the Manning administration.

That, it seems to us, should settle the matter. The farmers voted for the Manning programme of rural electrification and the export of natural gas, of withholding the title to mineral rights underlying their farms, municipal assistance, roads and highways and taxation. Thus Mr. Manning is to be first congratulated on what was so largely a personal triumph and, secondly, to be entitled to proceed with the programme the people have endorsed. As far as the Farm and Ranch is concerned, the issues have been decided and, until the next election, we have said our piece. Accepting the so clearly expressed verdict of the Alberta farmers is not simply a matter of "good sportsmanship"; it's good democracy.

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Land reforms spark near-East revolutions

By BEN MALKIN

CRITICAL changes are taking place in the Middle East, perhaps as crucial to the world's development as the Industrial Revolution in England 150 years ago. A revolution is going ahead in Iran and Egypt, and neighboring countries cannot be far behind. How the revolution will end no one can yet foresee. But if land reform measures, and other steps, such as a graded income tax, are taken to give greater wealth and political power to the poverty-stricken people of this area, it may end as a middle class revolution, democratic in character. If these reforms are not instituted, it may end as a military dictatorship or a Communist revolution.

In Egypt and Iran, most of the land has been owned by a few wealthy landowners. In Egypt, for instance, King Farouk owned one-third of the 6,000,000 arable acres. The rest of the land was owned by about 200 families. Similar conditions prevailed in Iran. The peasants got nothing out of their work. If productivity was improved through new techniques, the benefits went to the landowners. The peasants had no hope of improving their lot as long as they owned no land of their own, but they apparently knew that their conditions could be improved under different circumstances. They knew that with modern techniques, they could live far better than at the subsistence level — but not if they didn't own their own land. And once these people started to believe they could improve their conditions, but not under existing circumstances, they were ready for a change.

Smaller Farms

For a time, their governments tried to divert this discontent into anti-foreign channels. In both Egypt and Iran, mobs aimed their anger at the British and Americans. But this could not satisfy the land hunger of the Egyptians and Iranians forever, and finally reforms had to be agreed to.

In Egypt, the landowners are to be expropriated entirely. No farm is to be over 200 acres in size. The land will be divided among the peasants who will set aside a portion of their crops to pay for their farms over a 30-year period. In Iran, the sharecroppers are to receive 20 per cent of the return from their work, instead of 10 per cent as formerly. The extra 10 per cent is to be set aside to help finance co-operative banking and other farmers' organizations. These institutions will, presumably, help the peasants eventually to buy the land they till.

If the Iranian and Egyptian governments go through with their promises, the importance

of these moves cannot be overestimated. Russia is beaming broadcasts to these countries on a 24-hour-a-day basis. These broadcasts tell the peasants that the distorted economies in their countries are due to "foreign imperialists". The broadcasts have great force because, up to a point, they are true. Western powers, in their dealings with Iran and Egypt, have always dealt only with the ruling cliques of landowners, and have been exceedingly careful not to upset existing institutions. The Russians are also telling these people about the absence of landlords in Russia. The Russians say that in their country the peasants get the fruits of their work.

In the West, where farmers work their own land or rent it on a reasonable basis, such propaganda could have no effect, for the farmers there get the benefit of their work. In the Middle East, such propaganda does have an effect, false as the propaganda might be. And if the peasants don't get control of their land by owning it themselves, in democratic fashion, they'll get control in Communist fashion. Or they'll have to be kept down by the guns of the landlords, and the landlords don't seem to have enough guns. That appears to be the choice.

If Iran and Egypt are forced to go through with land reform programs, however reluctantly, the whole Middle East — Syria, Iraq, Lebanon, and other countries will be affected. More than 50,000,000 people, sitting on some of the richest natural resources in the world, could be brought into the democratic camp in this fashion — not through propaganda, but in giving farmers their own land to work, thus giving them a stake in their own social institutions and a voice in their government.

The Choice

Justice William O. Douglas of the United States Supreme Court, who has been a close observer of the Middle East for some years, has been predicting this revolution right along. He argues that it cannot be stopped. One way or another, it will be fulfilled. Therefore, the West should encourage it and try to guide it. If the West doesn't, the Russians will, and maybe they'll succeed. That's apparently what happened in China, and it would be a disaster if it also happened in the Middle East.

First Things First

In Little Rock, Ark., after drawing a life term for his part in a robbery killing, Dan Darville was asked if he had any questions, replied: "Yes sir, judge. What'll I do now to get out right shortly?"



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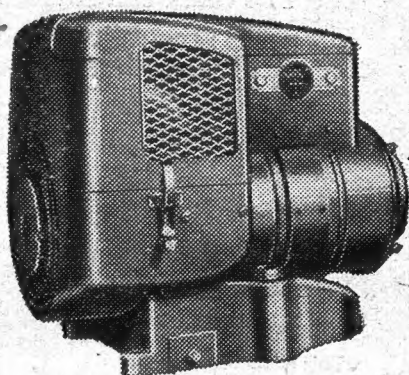


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Checking Up



National Film Board Photo.

Are you bored? Then wake up and start living!

By FRANK S. MORLEY, Ph.D. (Edin.), B.D.

IN the tenth chapter of John's Gospel you find these words of Jesus recorded: "I am come that they might have life, and that they might have it more abundantly". So Christianity is not "the Gospel of the Wet Blanket". It is no religion of suppression, but of expression. The whole purpose of Christianity is to give men the widest scope for their personalities. Jesus therefore was very bitter about the man who did not use his talent but buried it.

Swinburne called Jesus the "pale Galilean". That is a libel! Jesus in three years created so much disturbance that they crucified Him. He has been creating a disturbance ever since. We read that when the Disciples went to towns the inhabitants were afraid. Well they might be, because their visits were followed by earthquakes and riots!

Jesus came to bring life. He announced His Messianic mission in the words, "The Spirit of the Lord . . . hath anointed me to preach the gospel to the poor; He hath sent me to heal the broken-hearted, to preach deliverance to the captives, and recovering of sight to the blind, to set at liberty them that are bruised."

Jesus saw the great mass of people in slavery. There is nothing as dull and Wrong drugging as sin. Every-
Bus where people sought life and missed it. They sought it in drugs, in drink, in crime, in lust. A man rushed desperately to catch a bus and the bus-driver kindly waited for him. As he got to it he asked the operator, "Where is this bus going? The question may have been irritating, but it was wise. Many of us have got on a wrong bus. I remember in Paris last

summer going in exactly the opposite direction to that which I wished to go. Most people seeking life catch the wrong bus.

A girl of only eighteen in a police court, was reported as a dope addict with whom even her parents wished to have nothing to do. She sought life, but at eighteen this potentially lovely person had utterly destroyed herself.

William Henley describes Piccadilly at night as "a tidal wave of lust from shore to shore". In the United States a statistician reports there is a rape every fifty-two minutes. Insobriety and alcoholism have four million victims a year. One hundred thousand women and girls are in institutions for alcoholism and sixty per cent of them are doomed as incurable. This restless search for life is demonstrated in the fact that seventy million Americans have moved since the war. Canadian statistics would be comparable to these.

During the war it was deeply moving how often the soldiers wanted the song, "I want to live". So do all of us really. We want to be important people, doing something vivid and interesting. Ann Greenwood expressed it in a little verse:

"Taint that I want the money or fame
when I'm dead.

But because I get so tired of just
composin' bread.

I'd like the folks in Plainville to read
some magazine

An' see it writ in printin', 'A poem
by Sarah Green'.

Yes, I can cook, but mercy a body's
got to cook.

That's just the very reason I want to
write a book!"

Doctors tell us that boredom is the worst evil in the world, and not only is it destructive of morals and health, boredom is also destructive of every fine work. No bored man has ever painted a picture, written a book, been a good citizen, or been a great lover. That is one reason why Jesus chose young men to follow Him. All of them had faults, but all of them had enthusiasm. We hear a lot of condemnation of flaming youth. Jesus wanted flaming youth and He didn't bank their fires. He fed those fires so that they would never go out. Dean Inge says that "Religions are best when they are fresh from the mint." So it is when the Church is young that great things are done. Many people fear fanaticism in the Church. Well I would rather restrain a fanatic than revive a corpse. We list the numbers of the Church and boast of them. Yet Gideon's army is stronger when cut down from thirty-two thousand indifferent and frightened members to three hundred brave enthusiasts. The valuable statistic of any Church is, "How many vital members are there in it?"

There was a day when men and women sacrificed for the Church. There are very few today who make any sacrifice. There are millions of nominal Christians and their Christianity has no more fire, no more reality, than that of the cow in the pasture.

Religion is a complete commitment, and that is dangerous and challenging. It is glorious and adventuresome also, because caution is monotonous.

Thoreau was one of the greatest Americans who ever lived. He had a profound influence on Gandhi and other great men, although he had very little recognition before his death. He was a vivid personality who dared to break away from the crowd. He visited New York and reported, "I walked through New York yesterday and met no real living person". To a sick friend he wrote advising him not to worry about his condition. "You may be dead already", Thoreau said. Many people are dead already. When the papers headlined the fact that Coolidge was dead, Dorothy Parker asked, "How can they tell?"

How God hates lukewarmness! To the Church at Laodicea God says, "Because thou art lukewarm I will spue thee out of my mouth". We are commanded to love God with all our heart and soul and strength and mind. A woman complained to me that, "My little girl is church-crazy". It developed that she wanted to go to Church every Sunday! I trust she will get crazier and crazier.

The whole religion of most people is embodied in the hymn "Hide me, O my Saviour hide

'til the storms of life are past." A religion centred on security and self! True religion wants to live out in those storms. True religion wants to get out in the battle where there are graft, corruption, suffering, and great forces of wickedness. A true Church has a purpose, a program, a conviction, and a dedication.

Jesus came to bring life. Fulfilment is a Christian word. How can Jesus give us life? He can release us from sin and give us freedom. He can release us from selfishness and make us see the men and women around us. He can make our work significant so that you can go out today saying, "Every person I meet is sent by God. Every bit of today's work has a purpose for God." You can see all life as a preparation for eternity. Each day will be full of adventure, for you will never know what God will have for you to do.

Religion involves a risk. Christianity demands complete consecration, complete dedication to the will of your Master. That is not

easy. It involves unselfishness and guidance. Zona Gale said that she was determined "to increase the area of my awareness". Most of us are afraid to do that. We huddle into security. We retreat from life. Ask yourself what you are doing that makes any real difference to the world. Would it matter to this world if you died tomorrow? What sacrifice are you making?

According to his promise Douglas was taking the heart of Bruce to the Holy Land for burial. He passed through Spain and became engaged in battle with the Moors. As the battle went against him, Douglas threw the heart of Bruce into the midst of the enemy crying, "Lead on, brave heart; I follow thee." So if we catch the vision, if we love Him, and since He is far ahead of us, we cry, "Lead on brave heart; I follow Thee."

Canadian Quiz

By GEOFFREY SHAWCROSS

1. Who led the 2,500 immigrants who disembarked in the quiet harbour of Chebucto in Acadia on June 21st, 1749?
2. Which city did they build?
3. Who built the original Canadian Northern Railway?
4. When?
5. How long was it then?
6. When and why did Newfoundland increase by about 160,000 square miles?
7. When was the United Church of Canada formed?
8. When did Parliament create Alberta and Saskatchewan?
9. What territorial changes took place in 1912?
10. How?

(Answers on page 31)

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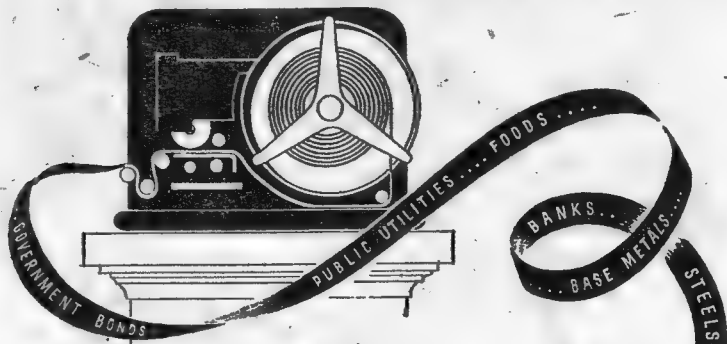
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If you must summerfallow, then you have to plan

By JOSEPH PAUL

THE summerfallow period lasts for about 21 months. As the saying goes; "anyone but a fool or a newcomer" would know you can't forecast the weather 21 months or 21 days ahead of time; so how can you expect to plan the summerfallow programme? How can a restaurant keeper plan a menu to cater to an unknown number of guests with appetites varying according to race, religion, work, weather, and whim? Both jobs are impossible, but both have to be done.

We can leave the restaurant keepers to solve their own problems; but the programme for the summerfallow period needs to supply the answers to these hows, whats, and whens; how much stubble to leave, what to do with the straw, when to start work, what implement to use and how deep, how much tillage to aim at, how to avoid soil erosion and insect pests, and how to finish the job the second spring.

As was previously noted, half the moisture stored in summerfallow is from the rain and snow of the first fall and winter. On the other hand, little or no moisture was added to the fallow during the second fall and winter when the ground was bare. Standing stubble holds the snow and protects it to some extent from evaporation.

The stubble and straw from a 30-bushel crop of wheat have a fertilizer value somewhere between 50¢ and \$5.00 per acre. Any temporary lowering of fertility due to mixing straw with soil is overcome long before the fallow season is over. Tillage must be planned to use the stubble for snow conservation for at least one winter, and to use the fertilizer value of stubble and straw.

The question of when to start work on the fallow is an important one. A greater degree of weed control may

be secured by doing one tillage operation as soon as the crop is taken off. This practice has also been recommended during grasshopper outbreaks as a means of destroying their egg pods. Discing was used for both purposes and the stubble was knocked down to the extent that very little snow could be held. For this reason, early spring work has been preferred to fall tillage.

Recent developments have renewed the interest in fall tillage. The common use of the blade in some districts has made it possible to work the land without disturbing the stubble enough to affect its snow holding capacity. The chisel cultivator is also being used, and is found to leave enough stubble upright to hold the snow effectively. It appears that in some seasons the snow water soaks in more readily in fields which have been tilled by either of these methods.

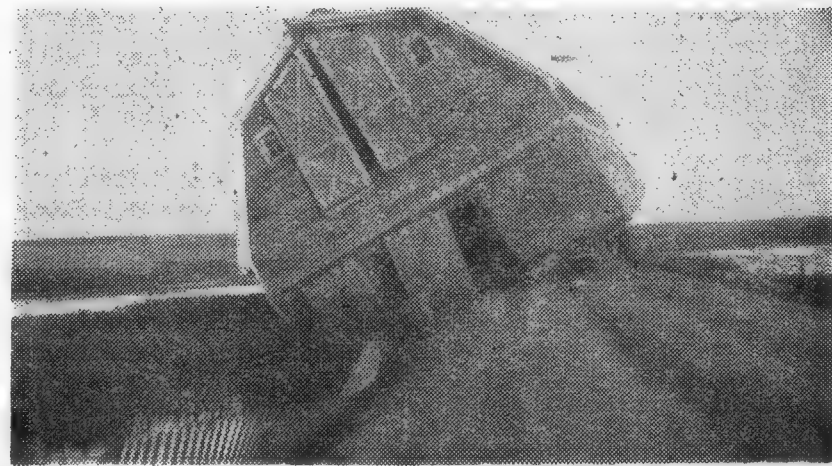
As this good effect of fall work appears to depend on seasonal conditions, the economy of the operation is questionable unless it serves the added purpose of aiding weed control. It may be particularly useful where patches of perennial weeds need attention. To be effective as a weed control measure the work should be done early and for this reason might be fittingly referred to as "harvest" tillage rather than as "fall" cultivation.

The use of harvest tillage as a first operation in summerfallowing was pioneered by the man who developed the blade cultivator in Alberta, Mr. C. S. Noble, of Nobleford.

The practice is now being tested on many other farms and experimental stations.

Weed growth must be controlled during the entire fallow period to conserve moisture effectively. Weeds which start in the spring must be killed before their roots get beyond the top few inches

Oops, watch it!



According to Mrs. Henry Geres, Glen Baln, Sask., who won \$5 for this shot of a barn imitation of the Leaning Tower of Pisa, the crew got it back on the road before it toppled over.

of soil, or stored moisture will be lost. An increasing number of farmers are tilling their fallow before or during seeding, if at all possible to arrange the work that way.

Regardless of when the summerfallow is started, the whole process is useless unless weeds are controlled for the remainder of the season.

The choice of implements is pretty well determined by the amount of trash on the land, and what you have to work with. The blade is becoming more popular where moisture is scarce and where the emphasis is on trash cover. The blade is usually operated at depths of 3 to 5 inches, to avoid pushing the top soil. There seems to be no reason to go deeper unless you intend to use a rod weeder, or weed bar on the blade, for two or three later operations. The rod weeder and weed bar tend to run less deeply each time they are used.

If the one-way is used it is better to do the deepest tillage first. This gives a better anchorage of trash and stubble, and allows plenty of time to get the lower part of the tilled soil packed down before seeding. It should also be noted, turning the soil over tends to dry out the whole tilled portion. The first working is the one most likely to be done when moisture conditions are good, clear up the top of the ground. It is better to turn this moist soil under than to turn under 3 or 4 inches of dry soil with a deep tillage during the hot part of the summer.

Plowing is common in many districts. Quite often it is preceded by tillage with a disc harrow or cultivator, especially where weeds are likely to make quite a growth before the plowing can be finished.

Plowing covers the trash and brings up firm soil from underneath. Soil protection, therefore, depends on keeping a layer of small clods. This is accomplished to good advantage by use of subsurface tillage with the duckfoot cultivator or rod weeder. The cloddy surface can be maintained by working as soon as a crust has formed following rain. At this stage the shovels on rod of the machine will be working in moist soil which will granulate or pack under pressure, instead of pulverizing as in the case of dry earth.

Science has failed to unravel all the mysteries of the ancient art of plowing.

Experience Has No Substitute In this connection it is interesting to note, depth of plowing is still a subject of experiment rather than recommendation, by the oldest experimental farm in the world at Rothamsted, England. The Experimental Farms Service of Canada is 43 years younger although it was started in 1886. The rest of the discussion on summerfallow will be taken up in the next article.

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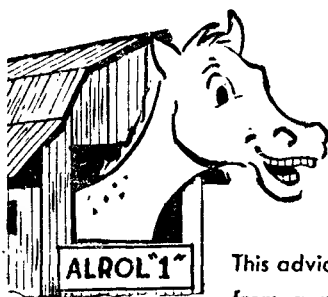
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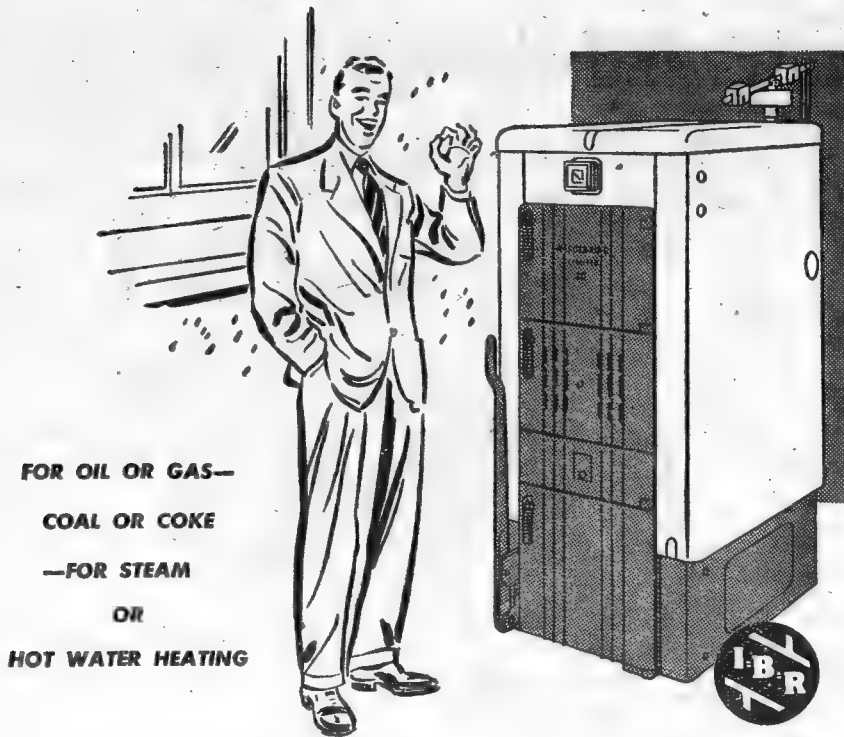
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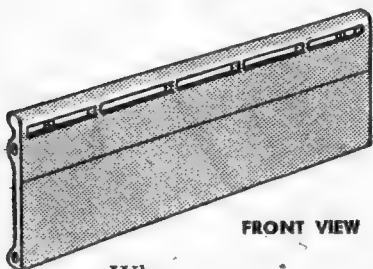
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Off to School



Mrs. Ethel Kerns, Wimborne, Alta., sent us this picture of Allen and Virginia riding double.

Loose housing barns are no good for timid cows

By TOM LEACH

Latest Results

PLANNING a new dairy barn? Look into the loose housing plans and study them but don't swallow them hook, line and sinker until you have considered a few of the drawbacks to that system of management.

A number of dairy farmers on the west coast have built new barns during the past four years. Judging by estimates it appears that loose housing has won out over the conventional staunchion barn by a slight degree, but almost half of the farmers are strong believers in the individual care of their cows and flatly discount the advantages claimed for the newer ideas in milking parlors and loafing sheds.

F. Burge who operates a dairy farm about 70 miles south of the Dawson Farm on Vancouver Island told the B.C. Dairymen's Association in 1949 that he had been able to increase production, keep his cows in better condition and do this with half the labor he formerly required in a standard barn. Mr. Burge is still proud of his two-unit milking parlor and it is a regular feature of the farm to have a class of boys and girls from Victoria schools looking over his modern dairy layout.

Listening to those who have placed their future with the loose housing system of management we conclude that the advantages may be summed up in less labor required for feeding and milking, easier to handle manure, and less sickness or disease.

On the other hand we hear from those who stand pat on the staunchion barn the claims that they save on feed, they save on bedding, and that they can keep their cows in better physical condition.

Because of these opposing opinions it was gratifying to see a summary of the past year's operations of the new loose-housing trial conducted at the Dominion Experimental Farm at Agassiz. The new barn has not been in operation quite a year but it was in use throughout the winter period when it is possible to assess the advantages. That is when you learn how cows eat in cold weather, how they do when the temperature drops down to freezing or below. According to the experience at Agassiz they have not been doing so well.

The building at the Experimental Farm was constructed according to the generally accepted standards called for under the loose-housing system. It is a frame building with a full loft, 36 feet wide and 80 feet in length, providing almost 3,000 square feet of floor area or sufficient for 25 cows. On the west wall is a feed rack 45 feet long and with a cement floor on each side 9 feet in width. The overhang on the outside protected the cows from weather while feeding.

The entrance to the milking parlor is 10 feet wide and is located at the end of the feed rack. The door was left open at all times to allow the cows free movement. While the feeding area was cleaned out twice a week the main lounge area was not floored and cleaning was to be a one-time-a-year chore. The concrete area around the feed rack was one of two changes in the plan from the usual loose housing pen. It was installed to save litter, but it required more labor.

The other difference was the open doors which allowed the cows complete freedom. They are allowed in or out as they

choose and that also eliminated any problem of ventilation.

Last October, W. H. Hicks, superintendent of the Farm divided the herd of 38 cows as evenly as possible and half were placed in the new barn with the other 19 placed in two rows in the standard barn. Both groups were allowed the run of bare pasture fields until the middle of the following month. After November 14th the staunchion group were allowed in a yard only at cleaning time and the others were loose in their winter quarters.

Same Feed

Feeding was essentially the same for each group. Hay was scarce and costly so the feed racks were not used as self feeders, but cattle in the loose barn received equal quantities of hay, grain, silage and beet pulp.

Both the milk production and the weight of the animals suffered in the loose barn. The amount was not significant for individual cows were dry at different times but the average for the 19 cows in the loose barn was almost 2 pounds less milk per day than under the standard management. They also suffered some loss in weight. At the start of the trial the staunchion cows averaged 1,431 pounds and came out in the spring weighing 1,405 pounds. The average weight of the cows in the loose barn was 63 pounds lower at the end of the 175 days. That provides some evidence that they required some of their feed for keeping up body temperature during the winter.

It was never extremely cold, but the temperature did drop sufficiently low to make the cows uncomfortable in the milking parlor and they had trouble with the milking machines. If the weather was much below zero it would be essential to provide heat in the parlor. Under such conditions the manure is likely to freeze in the loafing barn. It froze at Agassiz where the lowest temperature recorded last winter was 5 degrees above zero.

A timid cow becomes a sorrowful beast under the loose pen system. They found that true at Agassiz since two of the cows took a beating from the others. They were ousted from the feed racks and spent much of the time outside in the cold. By the spring one had lost close to 200 pounds, and both were more than 100 pounds lighter than the average for the herd.

There are several good features of loose housing. Milking is faster and is not such a chore. Feeding is faster and a time-saver, but it remains a question whether advantages plus the lower cost of initial construction is sufficient to offset the trouble with cows in heat, inspection of animals, treatment of animals, and veterinary inspections under the loafing barn plan of management. A great deal depends upon the man who operates the unit.



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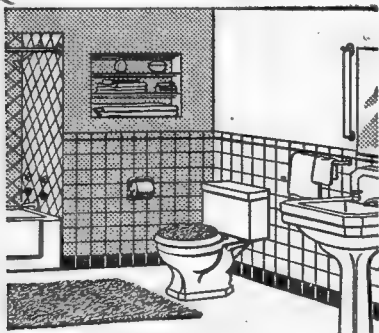
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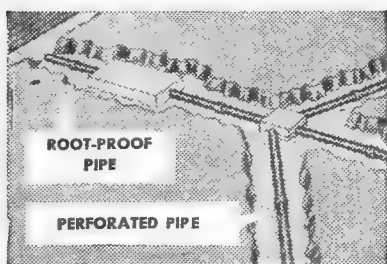
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Feeling kind of low? Then try these roadside remedies

By KERRY WOOD

IF you meet a farmer in our town carrying a handful of wild flowers, the chances are that he's looking for me and wants to ask which of the plants have medicinal value. There is an increasing interest in this subject, and farm folk are still writing letters about a "Nature's Pharmacy" article written for The Farm and Ranch Review back in 1949. Questions on the topic are asked most often during August and September, when fields and woodlands are bright with blooms.

In every handful of flowers there is sure to be Bergamot, that stately member of the mint family. This common western flower flourishes along every country road, a conspicuous plant about twenty inches tall and crowned with a cluster of pink blossoms. They exude a pleasant perfume, though you may find yourself sneezing at every whiff of the aromatic scent. Hay-fever sufferers may recall that old-fashioned handkerchief sachets of the past usually made them sneeze, and Bergamot supplies the explanation as the dried flowers of this plant were the chief ingredients of scented sachets. The plant has wide fame throughout our continent, because its leaves provided the well-known Oswego Tea of the Indians. They enjoyed it as a tasty drink, but sometimes attributed medicinal value to the brew. Being a mint the Bergamot contains thymol, which is a good antiseptic oil. So it is sometimes used as a remedy for sore throats.

Ancient Hair Tonic

The white heads of Yarrow will be conspicuous in the farmer's handful of flowers, and he may ask about the rumour that they can cure baldness. Your guess is as good as mine on that score, but it is true that British herbalists set great store by Yarrow flowers as hair-tonic medicine. Yarrow's best known

medicinal use is as a blood stauncher, or wound dressing. The ancient Greeks knew this, and in the legend of Achilles that hero was supposed to have cured the wounds of his warriors by using a dressing of Yarrow.

Another stauncher is the common Shepherd's Purse weed. A



This is a handful of Seneca Snake-root. Its roots bring \$1.50 a pound when dried.

tea made from the triangular seeds was sipped by our ancestors to stop internal bleeding. Now the plant gives us kidney medicines, while herbalists use it as a stimulating tonic. Such a tonic is more pleasant to swallow than the brew made from the yellow-flowered Tansy. Tansy also supplies a worm-dispelling medicine, but a bitter tonic can be made from its green leaves and Tansy Pudding is still remembered by people from the Old Land — it was called a "nauseous dish" by one early writer. As a tonic, it isn't as good as the concoction made from Nettle leaves, a pleasant drink and valuable because of the iron, sodium, and lime contents of the plant. Nettle has

another fame: it was used extensively in Britain during the war as a dye, providing the green camouflage for draperies hung over guns, planes, and tanks. And there are those who'll tell you that Nettle Beer is a healthful drink, greatly superior to bottled brands.

Dandelion Coffee

It isn't likely that the despised dandelion will be in the bouquet of flowers brought by the farmer, but dandelion provide a good laxative tonic while the roots were once sought by pioneers to make a stimulating coffee-drink. The Plantain that some call Snakeweed yields a juice formerly prescribed for curing snake bites, while in actual fact the young leaves make an excellent spinach. There is a soothing mucilage in Plantain greens well known to Indians; they applied the bruised leaves to cuts and sores as a dressing. Saskatoon bark, boiled in water, becomes another good antiseptic wound-wash. The leaves and flowers of the dainty Violet were valued for the same purpose, also to make a compress applied to swollen glands and sore throats.

Before leaving the weed list we should mention the Couch Grass, which has root rhizomes that yield drugs useful for treating bladder and kidney ailments. It is noticeable that dogs and cats chew on Couch Grass whenever they need medicine. Chickweed is another valued plant, sought as salad greens by country folk. An efficient ointment can be made from Chickweed leaves to treat skin eruptions and rashes.

We grow many plants in our gardens, parsley being the best known. Parsley is a good source of iron vitamins, excellent for those bothered by dropsy while the raw leaves are recommended to soothe stomach ulcer pains. Rhubarb is useful for the treatment of dysentery; strangely enough, people bothered by rheumatism often find rhubarb a harmful food. Mint has value as a stimulant and to relieve digestive troubles.

A common-garden flower, the Calendula or Scotch Marigold, is really a herb — the orange blossoms provide fever medicines and bronchial remedies. The roots of Iris are used to manufacture Orris Powder, an expectorant. And for those who cannot eat onions but still need a source of natural sulphur, the graceful Chive herb is strongly recommended — a pretty little onion with a beautiful flower whose mild-flavoured stalks make a pleasing addition to salads and stews.

We haven't discussed the Seneca Snakeroot nor the Wild Sarsaparilla the farmer will surely have in his handful — both having fame as medicinal plants collected by Indians and woodsmen to sell to pharmacists. Nor have we mentioned the leaves of raspberry and black currants, beloved by old-time granny doctors.

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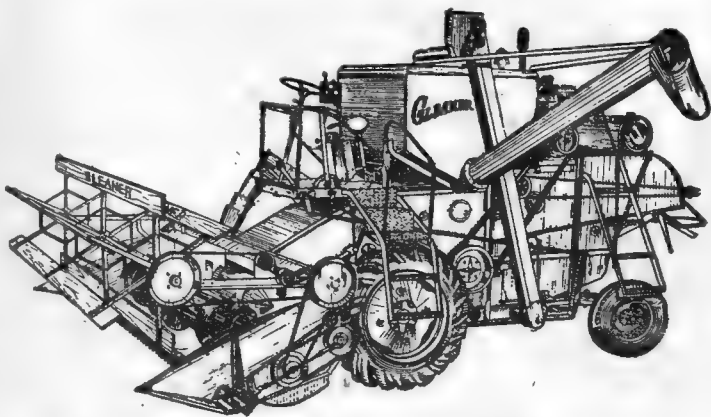
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The Farm and Ranch has arranged with Mr. David Meyer, the author of this new and regular feature of the Farm and Ranch, to analyze the handwriting of its readers. Here are the rules:

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Do not send stamps and always enclose a self-addressed envelope.

"Get-rich-quick" artists are exposed by their writing

By DAVID MEYER

LET'S discuss the complex and intriguing subjects of introversion and extroversion as expressed in handwriting.

Before we start, it would be wise to purge our minds of preconceived notions about the subjects and try to approach them with an open and tolerant attitude. I say this because in our commercial and high-powered civilization the tendency is to frown upon the introvert personality and laud the extrovert. Introverts are supposed to be bad salesmen and mixers.

However, it will give us food for thought when we pause to consider the following facts. Two of our dominant religions, Christianity and Buddhism, were founded by introverts, Jesus Christ and Buddha. The greatest philosopher of modern times whose conceptions of time and space still influence creative thought, Immanuel Kant, was an introvert. The outstanding mathematician of today, Albert Einstein, is an introvert. A close associate of Einstein told a newspaperman who was planning an article on the scientist that if Einstein were deprived of his mathematics he would probably starve to death or even a meager living as an obscure clerk or teacher.

The two great dramatists of the 20th century, the Swedish August Strindberg and the Norwegian Henrik Ibsen, were introverts. So were the supreme

Psychology would be an empty term without Sigmund Freud and Karl Jung, both strongly on the introvert side.

What is the significant trait of all these illustrious introverts and their kin? All worked from within outward, that is, they were preoccupied with an inner vision which they projected into the outer world through theoretical, scientific and artistic systems and creative works. Direct contact with external reality was not enough for them.

Leaving the heights on which these introverts functioned, we find introverts in every walk of life around us. They are bankers, engineers, scientific research workers who give us the latest discoveries in medicine and physics, accountants and bookkeepers, teachers, businessmen, etc. In short, you will find an introvert for every extrovert in most professions, trades, businesses.

What differentiates these work-a-day introverts from their extrovert brethren is their emotional qualities. That is, they tend to be reserved, tactful, disciplined, thoughtful, cautious. Their relations to others are marked by a sense of distance. They weigh their words. Their impulses are always in check.

They are just as normal as any extrovert, and can be just as abnormal.

Here is the way they write:

¹
introvert

²
cannot

³
myself

novelists Dostoevsky, Flaubert, Henry James, Herman Melville, Edgar Allan Poe, the Bronte sisters.

Modern music is unthinkable without Beethoven, Mozart, Tchaikovsky, Richard Wagner, Richard Strauss, Stravinsky, Brahms, Sibelius — all introverts.

And where would modern art be without Seizanne, Picasso, Utrillo, Van Gogh, Gauguin and their predecessors Rembrandt, Da Vinci, Cellini?

Sample No. 1 tells us that our introvert is as normal as any extrovert. That is, he is warm, capable of affection, interested in the world around him. These qualities are expressed by the right slant, the solid pressure, the speed of writing. The narrowness here is the trade-mark of the introvert: he is restrained, cautious, self-sufficient.

Sample No. 2 hints at an increase in introvert qualities. The writer is dominated by his intellect, is skeptical and a little

too cautious. He lacks warmth. He has tendencies to indifference to the world around him, and to withdrawal. But he is still quite normal. The handwriting traits which tell us these things are the weak pressure, upright slant, rounded letter "n", low t-bar.

Sample No. 3 verges on the eccentric and abnormal. This writer is obstinate, tied to his past, self-centered, very touchy, resentful, aloof and isolated, ungenerous. The handwriting traits which reveal these characteristics are the left slant, angular formation of the lower part of the "y", leftward movement of the lower part of the "f", heavy pressure on the final curve of the "f".

Here are typical samples of the writing of extroverts:

extravert can will myself

Sample No. 1, you will note, has firm pressure and width in both the letters and letter connections. The t-bar is high and long. Slant is to the right. We know from these traits that the writer is enterprising, ardent, warm, socially-minded, energetic and active.

Sample No. 2 has most of the handwriting traits of No. 1, with the additional traits of large size and angular "n". This writer is very ambitious and needs a position of leadership. He has good organizing capacities. He is firm and purposeful. He is a trifle vainglorious.

Sample No. 3 is a dangerous extrovert. Note that the width of the letters and letter connections

are extreme. The pressure is light. The writing is fast and mobile. This is the writing of the unscrupulous promoter and salesman, obvious and impudent. He'll sell you anything you are gullible enough to buy: oil wells that exist on paper only, second-hand cars with the gears worn out, "wonderful" land buys in Miami that have been under water since the primeval ice age.

And here is another difference between introvert and extrovert: while introvert No. 3 is his own worst enemy and harms himself much more than others, extrovert No. 3 is very kind to himself but very dangerous to others.

In this subject of introversion and extroversion, as in my discussions of criminality and

charm, I have not by any means covered the whole field, but have chosen more outstanding examples.

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THERE are about 305 million hogs in the world.

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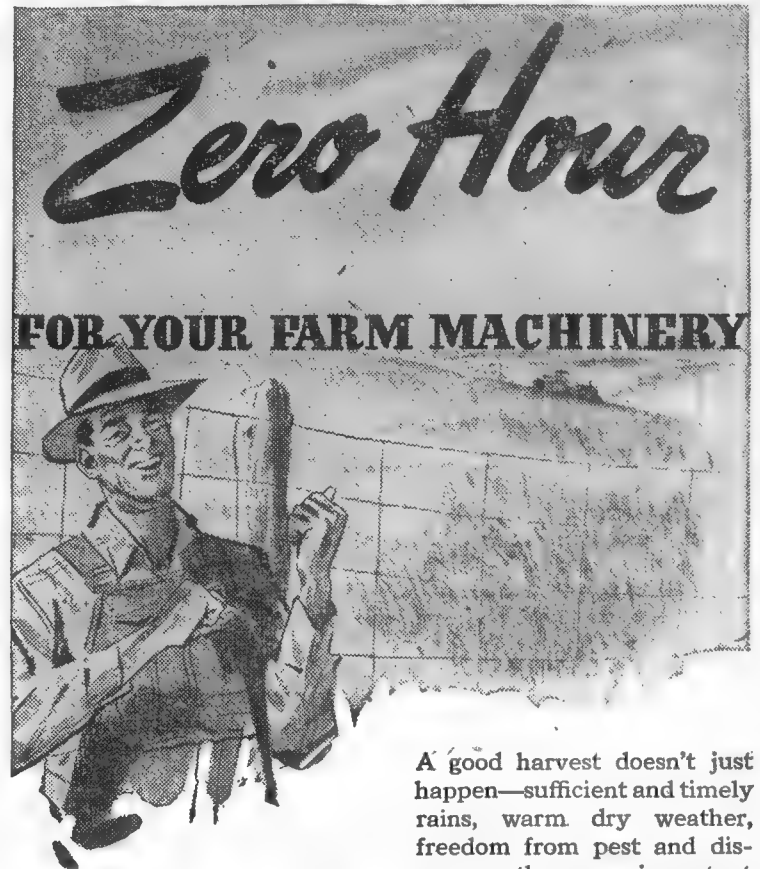
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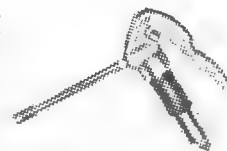
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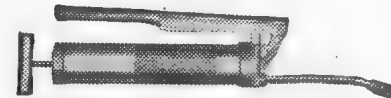


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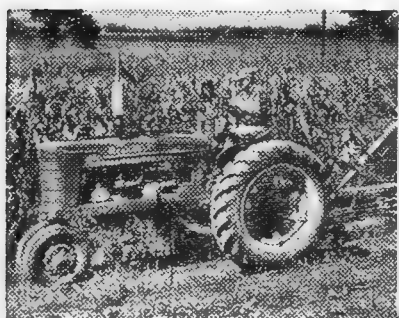
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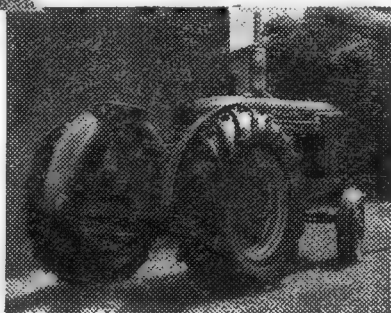
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Mr. Phelps defends his parity price formula

Dear Sir :

YOUR editorial in July issue headed "Ask a Silly Question and Get a Silly Answer", falls short of the standard you usually attain. Not that it is aimed at the action, or lack of action of the farm unions, but because it displays a woeful amount of erroneous thinking.

Sure, the three prairie farm unions went down to Ottawa recently and met with Mr. Howe and the members of the Agricultural Committee of the House of Commons. The farm union representatives went for the purpose, among others, to ask for a parity price for domestic wheat. We registered, and shall continue to register the strongest possible protest to the price for wheat sold in Canada, being tied to the International Wheat Agreement prices.

When we had our meeting with the Agricultural Committee in Ottawa we asked for a price based on the prices of goods and services farmers are required to buy, which is just another way of saying a "parity price." Some say that certain people in high places in Ottawa do not like the term "parity price." We do not mind using an alternate term, if it is more readily acceptable to them, so long as it means the same thing.

You say the farmers should ask for the class 2 price and quit fooling around, or imply as much. And you suggest we should not ask for such a silly formula and further infer that it is some new idea. Your reasoning here on this latter point is the part most difficult to understand. Could it be that the writer of your article is a newcomer to the prairies and has not caught on yet?

There is at least one thing all farm organizations have been unanimous on, and as far as I know very consistent, during thirty years or more, and that is our repeated request for parity prices for farm products. What does the "Farm and Ranch Review" consider so silly about a perfectly fair and reasonable request? Surely you don't expect western farmers to continue to subsidize milling and baking companies and the Canadian public with cheap flour.

It is true a parity price (which Dr. Hope recently calculated to be in the neighborhood of \$2.15 per bushel) would not be as high as the so-called class 2 price. However, many farmers reason, and others agree, that we would be better advised to continue to be consistent on this point as we have been for

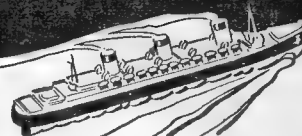
thirty years and stick with our "parity price." Even though at the moment it may mean a slightly lower price than the class 2, we think it may be a good opportunity and time to get the principle established on our own home market. So far as your argument that a parity price formula is a "wooly, nebulous proposal" would simply remind you that the American farmers, with the co-operation of their government, have worked out a practical parity formula which seems to be working out fairly well so far as the farmer is concerned. Even their 90% of parity price, upon which they presently operate, is the envy of most prairie farmers.

We would further remind you that we are not asking for a parity price on export wheat, but only on that portion sold for Canadian use.

The organized farmers, feel-

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ing as they do that the principle is sound and that it is fair and just, except a price for our product comparable to other prices in Canada, and enjoyed by other sections of our Canadian economy. Then we read that our sensible approach is ridiculed by a supporter of prairie farm economy. When you choose to come right out and say that any formula to establish a parity price for farm products in Canada is silly, we begin to doubt your contribution.

J. L. Phelps,
Chairman Interprovincial
Farmers' Union Council.

How to stop tractor upsets

To the Editor:

I AM glad you have taken up the matter of the many farm accidents, and I'm going to make a suggestion. Many accidents now-a-days are the overturning of tractors and cars so I'm suggesting that the old motto or adage, "Stop, Look and Listen," be amended to contain the following words, "except when driving a vehicle in the side hill, then keep going."

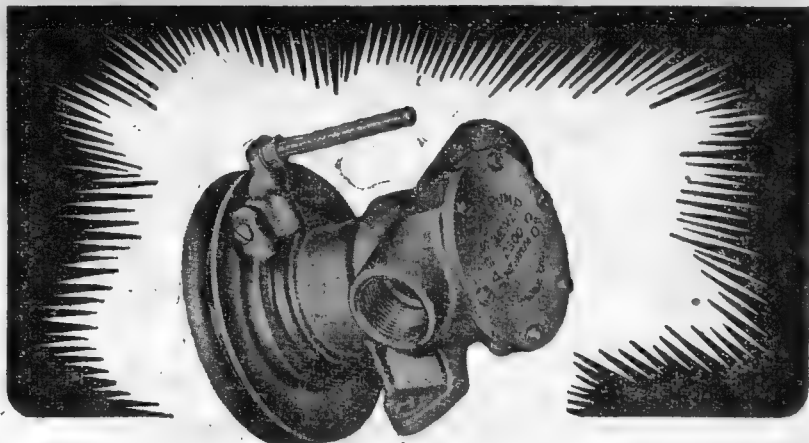
My eight years experience driving horse vehicles in a very hilly English farm showed that a vehicle will balance in the side wheels when the higher wheels aren't touching enough to leave a mark, and will right itself providing it doesn't stop or the hill get steeper. One old man who hauled turnips to sheep and cattle was so nervous that when his cart was in a precarious position would shout "whoa" and the cart and horse went over every time.

If the vehicle is in such a precarious position and it is possible to turn down that is a remedy; better a tractor or car in the ditch on four wheels than to be overturned on the driver. To turn up might mean a slight stop and over she'd go.

This is enough said to give the need for consideration, but I would say that in ninety-nine cases in the hundred the vehicle will right itself if kept going while in ninety-nine cases it would be overturned when stopped, certainly the lesson is timely for many whose natural inclination is to stop in danger.

J. M. Pine.

Rat Lake, Alberta.



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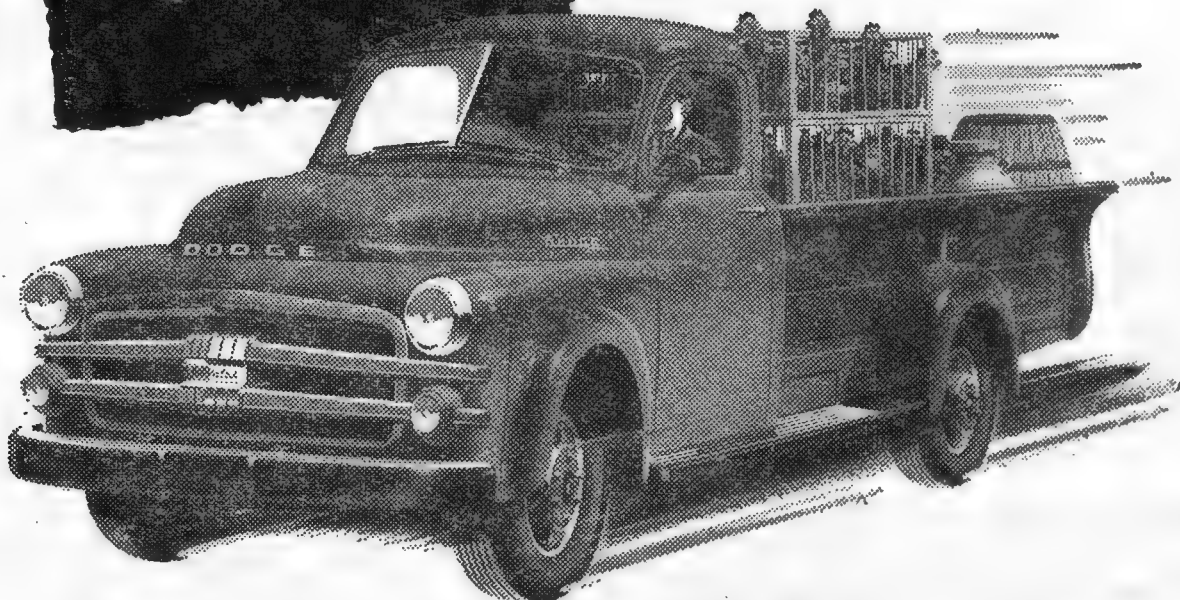
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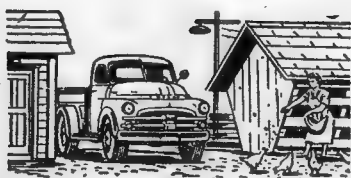
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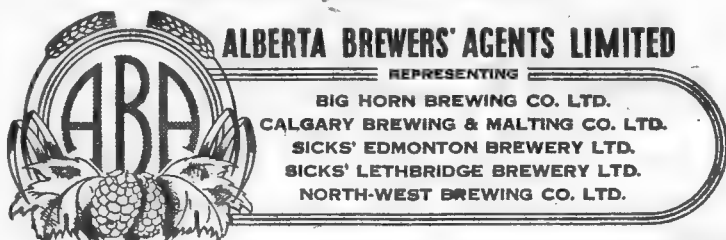
FARM MACHINERY CAN KILL



Accidents in farming operations claim altogether too many lives. In the great majority of instances carelessness is the contributing factor to accidents that cause injury and death. When operating your power machinery, exercise the same caution that you do when driving on the highway. Get into the habit of practicing safety at all times.

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There's a lot of planting to be done this fall

By H. F. HARP

THE month of August is usually not very far advanced before we notice a feeling of autumn in the evening air. Days are getting shorter and soon the season of Fall planting will be with us. Practical gardeners will take the opportunity of setting out whatever plants are best transplanted at this season, thereby lessening to a large extent the rush of garden operations that await the spring. The season of planting last spring was reduced to a few days, as dormant shrubs quickly developed their leaves. Hot, drying winds frequently experienced in May are particularly distressing to newly set plants so that autumn planting wherever practicable is recommended.

Dealing first with the so called Dutch bulbs such as Tulips and Daffodils, where the former are planted outdoors they should be purchased as soon as available in the flower shops and seed stores.

Many failures were reported last year with Tulips that were planted outdoors. Some disappointed gardeners blamed the bulbs, suspecting that they were diseased. It is more than likely that late planting accompanied by early and severe frost occurring before the snow came was responsible for the damage. Tulip bulbs imported in this country are subject to rigid Government inspection and it is safe to say bulbs purchased from reputable nurserymen are healthy and reliable.

The following types of Tulips are recommended for planting in prairie gardens:

The *Darwins* are well known and most reliable. They are available in all the regular tulip colors but weak in yellows.

Breeder Tulips or *Art Tulips* as they are sometimes called, flower a little later than the *Darwins*. The colors are distinctive in shades of rich bronze, plum-purple, orange-red and deep yellow.

Triumph Tulips are developed from *Darwins* and *Early Singles*. They flower somewhat earlier than the *Darwins* and have a complete range of colors.

Cottage Tulips are a little later than the *Breeders*. They extend the season of tulip bloom a week or two. The varieties *Inglescombe Pink*, *Inglescombe Yellow* and *Golden Harvest* are recommended.

Tulip bulbs are best planted in well drained soil at a depth of 5 to 7 inches, the shallower depth is preferred in the heavy soils. They should be spaced about 6 inches apart in bold groups of single colors rather than mixed plantings. They are most effective against a background of shrubbery in bold informal patches of color, never in straight rows unless they border a walk or are planted in the reserve garden to be used as cut flowers.

Winter protection — A covering of straw or corn stalks is placed over the planted area before the soil freezes and allowed to remain until late April. This insulation will retard growth so that there will be less danger of damage by late spring frosts.

Lilies — Hardy lilies are best

planted in late September but many dormant bulbs are planted in the spring. Most of the Regal lily bulbs grown in prairie gardens are from spring planted bulbs. Willmottal lilies and the many hybrids now available are planted preferably in the fall, setting the bulbs 6 - 7 inches deep.

Lilium Henryi, *Centifolium*, *Regale*, and *-Monadelphum* should be set about 8 - 10 inches deep. *Centifolium* is far more reliable than *Regal* and should be included in all lily plantings.

The new *Olympia* hybrids give rosy pink coloring in some instances but are not quite as hardy as *Centifolium*. A covering of soil put on in October to a depth of 3 or 4 inches will give added winter comfort to these bulbs. *Monadelphum* the Caucasian yellow lily is the earliest lily to bloom. It grows to 4 or 5 feet, is handsome and sweetly scented. In choosing a spot to establish a lily bed preference is given to an easterly or northerly exposure. There is less danger of spring frost as plants facing north or east are later starting into growth.

The hardy strain of *Lilium Candidum* *Salonika* variety the *Madonna Lily* is planted near the shrubbery and not deeper than 3 inches. All the lilies will benefit from a layer of gravel placed in the bottom of the hole when planting. Setting the bulb on its side and sprinkling a little more gravel over it will help preserve it from basal rot.

Brief mention is made of the *Fritillarias* cousins of the true lilies. They may be safely transplanted now. *F. pallidiflora*, *F. pudica* and *F. ruthenica* are all handsome hardy bulbous plants. The latter has brownish-red, nodding flowers, while the others have palish yellow ones. They will tolerate some shade and should be planted about 4 inches deep.

The *Blue Ixiolirion* is a delightful June flowering bulb that may be planted now. A hot dry situation suits it best — a few *Alliums* or flowering onions are showy and interesting they also may be transplanted in September. That includes most of the hardy bulbous plants that may be planted in autumn. A few general rules should be followed when planting bulbs — They are:—

Make sure your bulbs are free of disease by purchasing them from a reputable nurseryman. Make sure the plantings are well marked so that there will be no danger of damaging the young shoots with the hoe. Some of the lilies are notoriously slow in starting growth.

Never plant bulbs where water lies in the spring. Allow the winter cover of straw or other material to remain on until late April. If it is removed the first fine day of spring the chances are that growth will be advanced and vulnerable to frost damage.

The list of fibrous rooted plants best transplanted in autumn is not extensive but they all have a preference for fall planting.

The *Oriental Poppy* is much happier when set out in late August or early September than when disturbed in the spring. Poppies will often die out for no apparent reason when transplanted in the spring. The bearded Irises of course do much better when transplanted in late summer. Remember they are sun-lovers.

Plant them shallow, barely covering the fleshy portion of the roots.

Peonies can be safely transplanted from late September until the ground freezes, but wise gardeners will complete the peony planting as soon as possible after September has gone. Bleeding heart (*Dicentra Spectabilis*) may be safely planted now — Spring planting is often unsatisfactory as this plant is one of the first perennials to start into growth.

Evergreens —

The chances of success with evergreens is greatly enhanced by properly preparing the soil during the early summer so as to have everything in readiness for planting in late August.

The main advantages of August planting are:— A warm, moist soil that is conducive to rooting. Weather

conditions are usually more congenial—less danger of hot drying winds. By season's end the newly set plants have made new roots and are well equipped to take care of themselves over winter. However the added comfort of a covering of brush will be welcome.

Cedars (*Arbor-Vitae*) are especially liable to drying wind damage. Many valuable specimens were lost by the harsh winds and unseasonably hot weather of last April. Newly planted cedars should never lack for water at the root and when dry weather follows planting they will greatly benefit from a daily spraying over the top growth.

The Spruces will stand more rough usage than the Cedars but they too will suffer damage to the new shoots in periods of hot winds.

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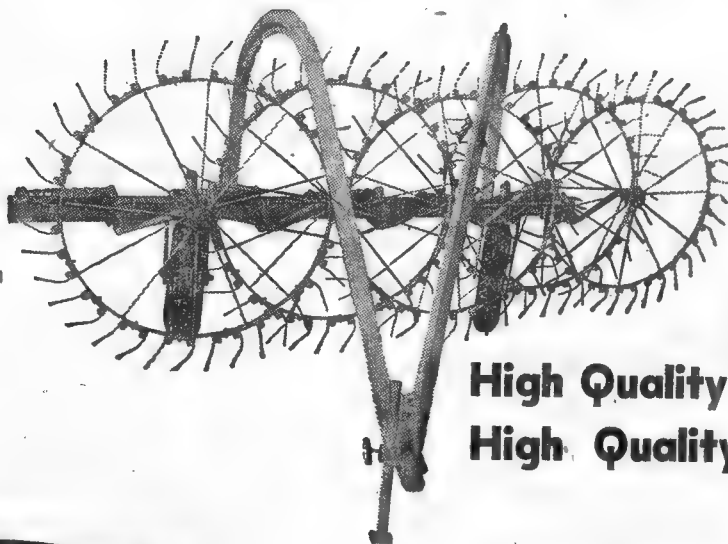
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Introducing a sheepman who doesn't hate coyotes!

By KERRY WOOD

THE farmer on the bus was a grizzled type with a twinkly eye and a lot of opinions. We discussed American politics, the best crops for gray wooded soils, and yarned about horses and beef.

"I raise sheep, myself," he added. "I like the woolies."

"Then I'll bet you hate the coyotes?"

"You'd lose that bet," he countered at once. "I've got no quarrel with coyotes, except the occasional killer. I don't leave any carcasses around when sheep die. It's my notion that wild-land coyotes don't realize that sheep have good-tasting flesh under that coat of oily wool. But a coyote will eat carrion, that being the nature of the beast, and if we leave sheep lying around where the wild dogs can dine on it, they soon get a yen for mutton and start killing to get it. So I've been fussy about burning carcasses of lambs or adult sheep in straw piles, to prevent coyotes from tasting mutton for free."

"You've met some killer coyotes, however?"

"Oh, yes — and I've used my 30-30 on 'em. Maybe I've been lucky, but I haven't lost any sheep to coyotes for a long spell now. And when one o' those government men came around with that 10-80 poison and wanted to set out some on my land, I said no. I might be wrong, mind, but I've watched the coyotes hunt gophers and mice and that's fine with me, and I never did like the nasty thought of poison in any case."

"What about chickens and coyotes?"

"Well, I keep poultry. I like the Light Sussex as dual purpose birds. And I've lost a few to coyotes over the past twenty-three years, usually in the early spring before gophers are out. One spring an old bitch

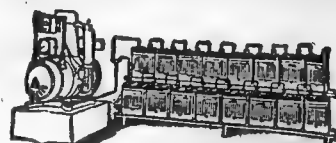
coyote denned on my land took four of my hens, but I figured it small payment for the coyotes keeping my place clear of gophers and mice over the years. So I haven't grudged them a few chickens."

"You're away different from the average, then," I commented. "Naturalists are usually on the coyote's side of the controversy, except in sheep districts, because we argue that coyotes help control the pests, but most farmers shout me down and tell how many calves or lambs or chickens or geese they've lost to coyotes."

The grizzled farmer chuckled and said:

"Speakin' of geese, I bought a couple Chinese Whites one spring, intending to raise a flock o' geese as a sideline to chickens. Never did care much for turkeys, because I'm too fond of my strawberry patch — and you can't have both strawberries and turkeys! Then I tried keeping ducks, but they gobble down food worse than gluttons and they fowled up my watering troughs all the time. I'd heard that geese are grazers and don't cost much to fatten, so I bought myself a couple of those trim looking Chinese Whites.

"Well, the chicken coop had been banked with manure to keep it warm that winter. I should have forked it away,



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but before I could get at it, the goose started to lay eggs right on top of that manure. I decided to let her keep the location, leaning an old door against the building to shelter her from rain. Everything was fine while she was laying, but the moment she started setting, that white gander took up a guard position and became bossy.

"Whenever hens came towards the coop, wanting to lay eggs, he'd rush out and hiss. If they didn't ske-daddle at once, he pecked at them real savage. In fact, he killed six of my hens, plucking feathers and skin off their backs in big globs so that I had to chop off their heads to put them out of misery. I was getting mad about it and thinking of chopping off the gander's head, when suddenly my little Bantam-rooster took a hand in the game.

"I've always kept a Bantam or two — they're comical little duffers and prettily feathered. And this little banty rooster took it on himself to champion those poor hens who wanted to lay in the chicken coop. He'd nothing whatever to do with those hens or their eggs, mind you, but he'd strut alongside any hen that got near the coop, escorting it up to the door. The gander would rush out, hissing and honking. Then the little banty rooster would turn towards that gander and hop and dance and spur up to it.

"Well, say! You never saw such a going-on! That gander worked himself into a sweat, trying to peck that fast little banty. The banty spurred and crowed and pranced. While he never did much more than ruf-

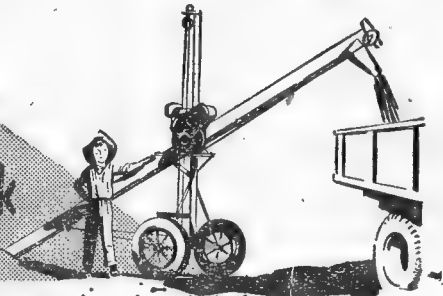
file the gander's feathers, he kept that mad old honker busy all the time the hen was inside the coop, laying her egg. Soon as the hen cackled and came out, the banty would break off the sparring match and go escort the hen away from the coop and out of reach of the goose-guard. Then all would be quiet again, until another hen decided to la yand the banty would escort her to the coop and the fight started all over again.

"Yes-sir! That banty and gander fought two or three dozen times a day for eight solid days. At the end of that time, the gander was worn thin and frazzled, and I doubt if he'd got one good solid peck at the spry bantam in all those fights. As for the banty, he was cocky as could be and twice as proud, while the hens probably thought him some pumpkins! On the eighth day, the gander quit bothering the hens. The banty stood around crowing, as though daring the big gander to shake the slack out of his droopies and fight again, but the gander was worn out and didn't fuss any more. And next Christmas, we dined on roast goose and I didn't bother raising any more. But I still keep bantams!"

Happy Ending

In Milwaukee, Helen Palaimo finally married Emmanuel Zblewski after she had (1) promised twelve times to marry him, (2) broken her promise eleven times, (3) been sued by him for \$10,000 for damage to his nervous system.

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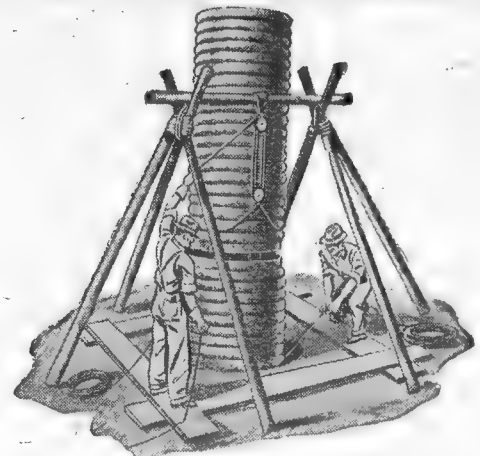
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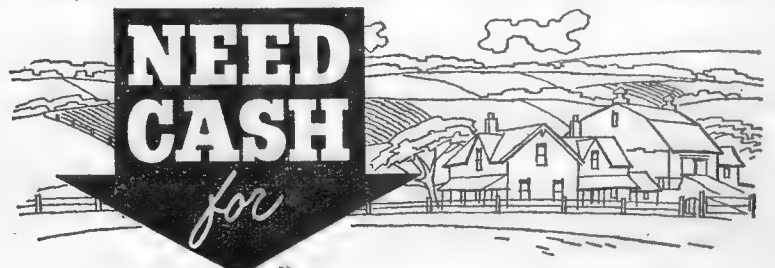
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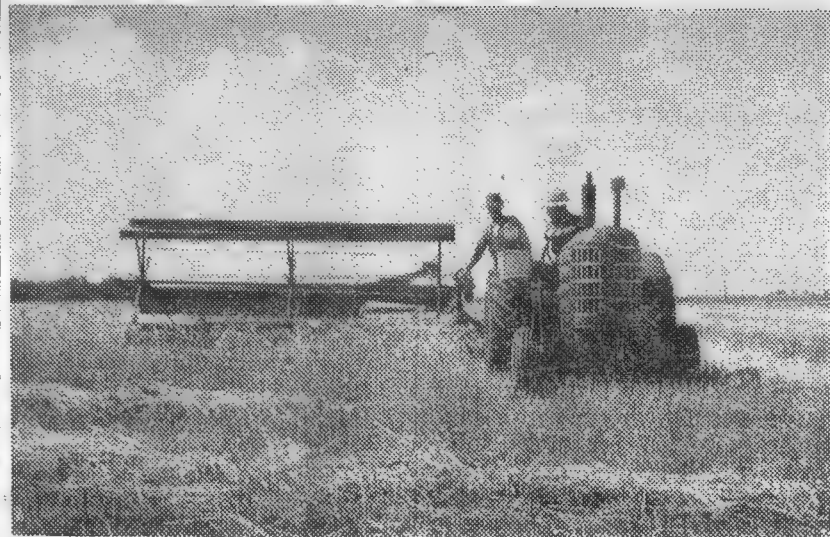
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The Swathes



(Canadian Pacific Railway photo)

The mysterious rain bird never guessed wrong

By KATHERINE HOWARD

IT was an old Irish woman, who, not long after our arrival in Western Canada, first told us about the rain birds. We were going on a picnic and the morning was fair, with blue skies and sunshine, and fleecy white clouds high above. Our hearts were full of happy anticipation, when our neighbor, shaking her white head, said mournfully, "We'll be having no picnic today, of that I'm sure. Faith, me poor dear father's rain birds are calling. 'Hark!'"

She held up her poor hand and we listened. Sure enough, from somewhere in the bushes at the side of the clearing came a long, sustained note, followed by three or four shorter ones. Then there was silence, until at last the chirping of wrens and white-throat sparrows began again, and the sunshine poured down from the sky.

We laughed at our neighbor and her pessimistic predictions. We packed our picnic baskets, and climbed into the big wagon to drive fourteen miles to the

sandy beach beside the river. But as we bumped along over the rough road and the "Cordu-roy" of poles through the tamarac swamp, we couldn't help listening uneasily.

Then it came again, that clear long note, the short ones following after. And just as we reached the picnic grove at the edge of the sandy beach, black clouds obscured the sun, and down came the deluge as we dashed for shelter.

"My poor dear father's rain birds," had made no mistake. Since that time, many years ago, we often have heard the rain birds calling. When they call, the rain arrives. It may not appear immediately after the bird signal; sometimes as much as an hour elapses, but we can rest assured that when the long, distinctive call, with the short notes following, issues from the woods or thicket, rain is coming.

Often during a rain storm, the dark clouds part and the sunshine streams through. If the rain bird is silent, we may assume the storm is over and

fine weather apt to remain. But if, during a sunny interval, our fine feathered friend gives tongue again, look out! More showers are coming. Our rain bird knows his rain as well as any radio weather man.

Still Don't Know

To us, the identity of this warning warbler is a mystery. You would think, that before a storm, when most song-birds are silent, it would be easy to spot the tiny creatures from whose throat comes such a penetrating call. But he must issue his song of weather prediction from the thick screens of the bush, for we have never yet seen him.

The call of the rain bird is not unlike the spring song of the chickadee, but as it never is heard until after the migratory birds have returned from the south, we are sure he is not a bird who stays all winter long. The plaintive call of the Phoebe is somewhat similar, but the short notes at the end are missing in the Phoebe's call.

The call of the kill-deer resembles our rain bird's lament, and it may be that the mysterious herald of rain belongs to the plover family. But whoever he is, and to whatever family he belongs, we have to give him credit for being accurate in his weather warnings. He rarely makes a mistake, and if his hearers are so dull of comprehension that they disregard his cautionary notes, they only have themselves to blame.

The coming of rain is often foretold by the actions of birds. Gulls fly inland, far from rivers and lakes when a storm is coming, birds flying low over the ground, and crows weaving erratically across the sky, are supposed to predict the arrival of rain; but the call of the rain bird, clear and distinct, admits of no argument.

"Rain... Rain..." it seems to cry, a long drawn out, sustained note, then, short and sharp, "Here it comes! Here it comes! Here it comes!"

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* * *

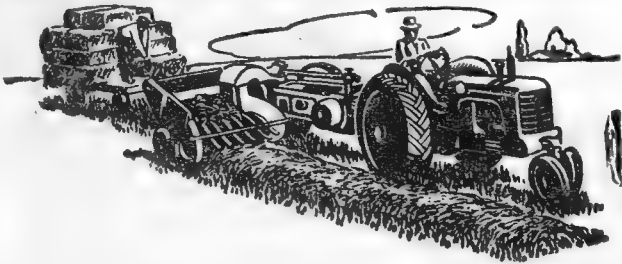
The above illustration and text are from an advertisement now being published by The House of Seagram throughout

the world—in Latin America, Asia, Europe and Africa. This is one of a series of advertisements featuring Canadian scenes and Canadian food specialties. These advertisements are designed to make Canada better known throughout the world, and to help our balance of trade by assisting our Government's efforts to attract tourists to this great land.

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Almost Ripe



Alberta Government Photograph.

How to combine organics with irrigation farming

By J. I. RODALE

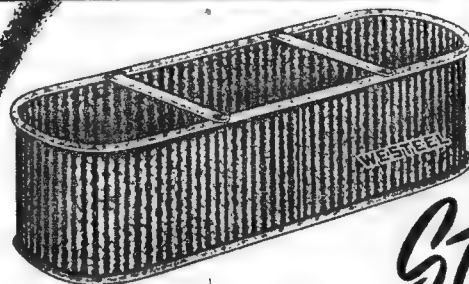
In "The Organic Farmer"

ONLY a few days ago I returned from an enlightening trip to Rocky Ford, Colorado, as the guest of Mr. J. M. Hickman, attending a farmers' meeting where a new product was being introduced. This is called Soilife, made by the Parkstone process. It is a bacterial activator made from a combination of organic matter and the urine of pregnant cows. Such urine is unusually rich in hormones and other fertile elements which are provided to make sure that a healthy calf is born.

material is being used only in irrigation farming because it lends itself so ideally for that purpose. Later it will be made to work for general farming and gardening purposes. It consists of the urine which originates at a certain dairy in Texas which is fed into a lake where anaerobic fermentation takes place; that is, fermentation without oxygen. It is then piped off into the manufactory where organic matter is combined with it in such a way that a fine, brown powdery material results.

Here is how the product is used in irrigation farming. At the place where the irrigation

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Stink weed in feeds harmful to beef cattle

TAI NTED beef from cattle, consuming feeds containing French weed or stink weed seed has been more prevalent than usual this season and cattle killers are reporting serious losses. Such losses will be reflected back to producers and cattle feeders everywhere are urged to exercise certain precautions that can completely remove the difficulty.

It is generally known that cows feeding on green stink weed will give tainted milk and

waters enter the farm a pit is built in which manure and other organic matter is placed, including weeds, spoiled hay, etc. The soilife, after preparation by being placed in a barrel of water for 36 hours, is then fed into the pit where it thoroughly saturates the manure.

The Soilife contains billions of soil bacteria per ounce. It is advisable to start the process a few months before the irrigation process begins, so that when the irrigation water begins to go through the manure in the pit, the microbes will flow onto the land by the billions. This is a method of using and multiplying the soil bacteria, which will work on the minerals in the soil and make them available.

that the repulsive flavor will be passed on to cream and butter. The dairymen have discovered, however, that removing the cows from the weed-infested pasture for several hours prior to milking will result in taint-free milk.

It is not so generally known that any dry feeds containing stink weed seeds, whether in oat sheaves or in grain or screenings, will impart a distinctive odor to the breath of the consuming animals and impart a relatively persistent and most objectionable flavor to the meat. In some cases, the meat from animals consuming the seeds has been so high in aroma and taint that it could not be used in the fresh meat trade; such meat must be devalued to be used in small amounts in highly spiced sausage.

The stink weed tainted meat is not in any way harmful to human health but its unpalatability presents such serious problems and losses that both producers and processors must face up to them. Some cattle buyers have actually been instructed to refuse to bid on cattle which carried the odor of stink weed.

The solution is quite simple, it is reported by the Council of

Canadian Beef Producers, feed in a day or two but work (Western Section) and consists of placing the meat animals on clean or stink weed-free rations for a week or ten days prior to slaughter. The odor of stink weed will disappear from the breath of the cattle on clean meat.

Do You Suffer

from

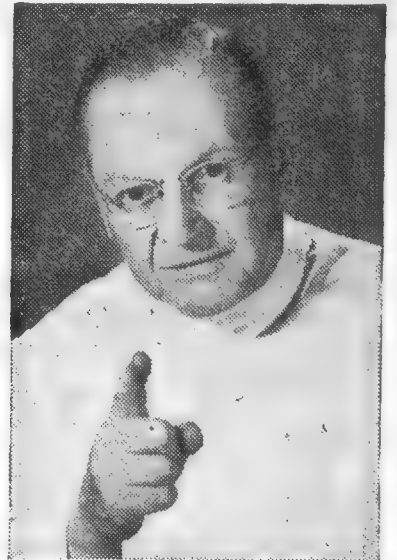
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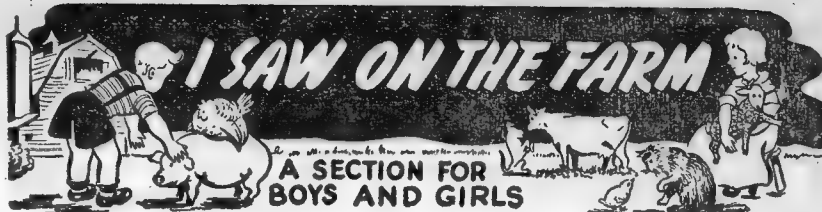
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One day in winter father was in town with horses because the roads were blown up and he couldn't go with the truck. In town he bought some groceries and two loaves of bread. When he came home he unhitched the horses and took them to the barn. Then one of our cows came home from the strawpile and when I came out from the house I saw that she was on the box eating something. When I came to the box I saw that she was finishing the last loaf of bread. I chased her off from the box and went to milk her. She sure gave more milk than usual. I wonder if it was because she had eaten the bread.

Shirley Osinchuk.
Morecambe, Alta.

One morning when I opened the door, a rabbit ran past about a foot from the step. I stood there very much surprised, when it was followed by another, and still another. I then called my mother and we both stood and watched as they ran round and round the house at least three times one right after the other. They didn't seem to notice us standing there but they continued to pass not a foot from us. They seemed to be playing a game. Then they raced out into the yard leaping over weeds and running around in circles.

When they came to an old barrel, which was in the yard, they began to run around and round it like a bunch of children. I never saw rabbits play like that before.

Lorraine Poupart.
Cabana, Sask.

We used to live at Andrew, Alberta, where there were no evergreen trees. We moved our cattle by truck to Rochester in March and there was snow on the ground. When we left the cattle off the truck, they looked about, and, seeing the spruce trees made a dash for them and took full mouths of the evergreen needles which they thought was green grass. Spitting the needles out with a shake of the head they looked around further and seeing some more green they ran for it too, only to be disappointed again. After a few more tries they gave up and just looked at their new surroundings.

Roger Hamaluk.
Rochester, Alberta.

My grandpa lives in a house of his own and takes care of our chicks in the spring. In the chicken coop, there was a swallow's nest with eggs. One day the swallows were locked out during the night and in the morning grandpa was awaken-

ed by a banging on the window. To his surprise he saw the two swallows. Grandpa just kept on lying in bed and they kept banging and squawking. Grandpa dressed and went out, as he decided to open the chicks. They followed him and as soon as he opened the door, in they flew.

Nellie Pawliusky.
Souare Hill, Sask.

One day last summer one of our neighbors brought my two brothers and I a white magpie. It was all white with pink eyes and feet. We called it "Ike". It ate good and seemed very happy. In spite of this, two days later it died. We were all very sad.

Dennis Swanson.
Box 49, Czar, Alta.

One day on the farm in Lac La Biche I was going to the barn and I saw our young twin goats climbing on the slab pile. I sat down and watched them



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in their interesting procedure. One of them jumped around and got one slab to turn around and ran to the end of it. The other seeing his brother at the other end of the slab jumped up and ran to the opposite end of his brother and there they were teeter-tottering like two happy children.

Dolores Girard.
Breynat, Alberta.

While my friend and I were playing in a neighbor's barn we saw a sparrow sitting on a granary. We didn't pay much attention to it until a hawk swooped down upon the sparrow catching him in its claws. Then fly away to a distant bluff to eat him.

Garry Genail.
Box 71, Russell, Man.

Going to school I saw a porcupine in a spruce tree. He has been there now for seven weeks. On warm days he comes down to the lower branches and on cold days he stays near the top. He doesn't seem to be eating the bark but has some of the needles and small branches eaten off. I have no idea how long he will stay in the tree as he is back up in the top again now.

Roy Killaly.
R.R. 2, Thorsby, Alta.

We leave the trap-door open that goes up to our hay loft when the weather is mild. The warm air from the stable melts the frost on the inside of the roof. One morning last spring I looked up and there on the edge of the opening to the loft was a beautiful ice-candle about fourteen inches high. It was a cream color and nicely tapered. The moss was out from between the logs beside it and the sun shone through

striking the top of the ice-candle and it was lit by the sun's rays. It looked nice in the dark loft.

Ronnie Schadeck.
Hualien, Alberta.

We have a canary named Teddy. He is six years old. His cage hangs by a window near the radio. He likes to watch the little birds outside and chirps back and forth with them.

We let him out to fly and I saw the funniest thing happen yesterday. Teddy found a mirror and he strutted and went through the queerest actions, making a low odd noise as if he was boasting to himself about how nice he is. After a play-time he was glad to fly back into the cage.

Carol Anne Rask.
Alticane, Sask.

Answers to Canadian quiz

By GEOFFREY SHAWCROSS

1. Captain General Edward Cornwallis.
2. Halifax.
3. The firm of Mackenzie, Mann & Co.
4. In 1896.
5. 100 miles.
6. In 1927, because of the award of the Imperial Privy Council in connection with her dispute with Quebec over the boundary of Labrador which that island controlled.
7. In June 1025.
8. In 1905.
9. The boundaries of Manitoba, Ontario, and Quebec were altered.
10. Much of the old district of Keewatin was divided between Manitoba and Ontario, while Ungava was given to Quebec.

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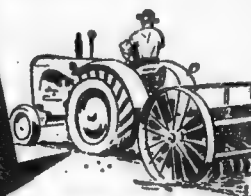
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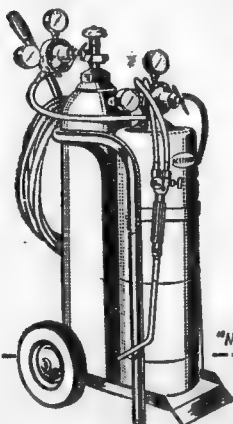
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P.O. PROV.

Farm and Ranch Housewife

DEVOTED TO THE INTERESTS OF THE RURAL WOMEN OF WESTERN CANADA

Like home-made candy? Then these tips are for you

THERE are two general types of candies—the crystalline type and the caramel type. In the crystalline candies, such as fudge, the sugar forms crystals. It is important that these crystals be very small, so small that they cannot be felt on the tongue. Otherwise a coarse granular texture is the result. The caramel type of candy needs to have "chewiness". And furthermore, the degree of chewiness needs to be just right. A caramel that just melts in the mouth without being too gummy is the texture desired. By following carefully the recipes and directions you can readily achieve candies of rich flavor and perfect texture, the goal of every candymaker.

1. Equipment. The size and kind of pan used in cooking candy are important. Enough room is allowed the mixture to cook without overflowing. A two-quart pan is used for all these recipes except caramels, which require a three-quart size. Any kind of pan can be used, but the candy will not stick as readily in a heavy metal

pan as in a thin one. Aluminum, steel and copper pans are ideal for candy cookery. A wooden spoon is best to use for candy making. A candy thermometer is an aid in determining more accurately the temperature to which candy should be cooked.

2. Cooking. Mix ingredients and cook over low heat, stirring frequently, until sugar dissolves, then cook over medium heat, stirring constantly, until candy is done. The acid in brown sugar will often cause candy mixtures to curdle. This curdled appearance will usually disappear, however, after cooling and beating.

In using a thermometer to determine the temperature of the candy mixture, immerse the bulb completely but do not let it rest on the bottom of the pan. Since atmospheric pressure varies from time to time in the same locality, it is well to use in addition to a thermometer the "cold water" test. One soon learns to know the look and feel of the soft, firm and hard ball. For best results, follow directions given in each recipe.

The Cold-water Test: Fill a small bowl with cold water. Remove candy from heat when making test so candy does not continue cooking. Allow small drops of candy to fall from spoon into cold water.

The Soft Ball Stage is reached when the drops can be gathered together in a ball that will just hold its shape, but which flattens on removal from the water.

The Firm Ball Stage is reached when the drops will form into a firm ball which does not flatten on removal.

The Hard Ball Stage is reached when the drops will form into a ball which is hard enough to hold its shape, yet is plastic.

The Soft Crack Stage is reached when the drops separate into threads which are hard but not brittle.

The Hard Crack Stage is reached when the drops separate into threads which are hard and brittle.

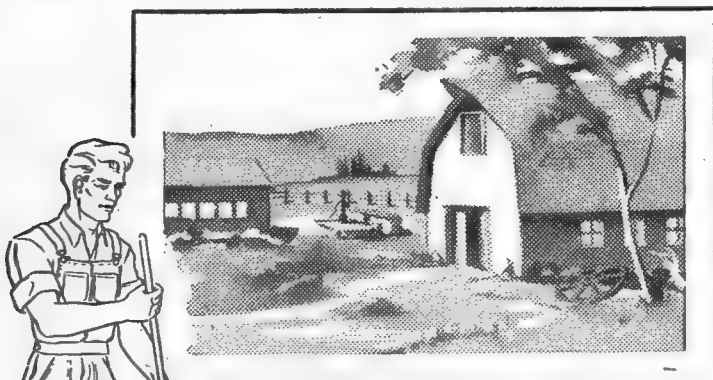
3. Cooling. Crystalline candy mixtures should be cooled thoroughly before beating if texture is to be fine. Cooling of hot candy mixtures is speeded up by setting the pan in cold water, changing water when it becomes warm. Do not stir or shake pan. When candy is sufficiently cool so that the hand may be held on bottom of pan with comfort (about 135° F.) it is ready to beat. Noncrystalline candies such as caramels con-

tain a large amount of corn syrup and milk, and sometimes acid, which prevents crystal formation. These candies are poured soon as they stop bubbling after removal from heat. Such candies are not beaten, but when cool have a desirable chewy texture.

4. Beating and Kneading. Crystalline candy should be beaten vigorously. When beating is started, the cooled candy mixture is very stiff and has a shiny appearance. With continued beating, the candy grows lighter in color and loses its gloss because of the fine crystals being formed, and finally it suddenly softens. At this point, turn quickly into a buttered pan. If turned out at the right instant, it spreads easily over the pan and stiffens quickly. If it hardens before it is turned out, knead until smooth and press into the pan. Candy may be kneaded on a buttered bread board or on a marble slab. Kneaded candies may be stored in a tightly covered dish in a refrigerator to ripen. If allowed to stand 24 hours or longer, they may be used as cream centers for bonbons, fillings for fruits or nut sandwiches or nut balls. When ready to use, let kneaded candies stand at room temperature to soften for shaping easily.

Correction for Altitude: The candies in this article were tested in Chicago at 580 feet above sea level. For each additional 500 feet, decrease the temperature to which candy is cooked one degree. If you live at sea level, add one degree to the temperatures given in these recipes.

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MEMBERS OF A COMMUNITY!**

Getting some variety into school lunch boxes

BY LOUISE PRICE BELL

Sliced sausage, chopped celery, shredded lettuce, mayonnaise.

Flaked salmon, minced onion, lemon juice, salad dressing.

Flaked tuna, ribbon lettuce, cucumber slices, salad dressing.

Chopped liver sausage, chopped celery, chili sauce or catsup.

Ground ham, tart apple sauce, salad dressing.

Ground pressed ham, peanut butter, chopped pickles, salad dressing.

Chopped bologna, chopped cooked beets, horseradish, mayonnaise.

Ground pressed ham, grated raw carrot, pickled relish, salad dressing.

Egg and Cheese

Hard-cooked egg, shredded lettuce, Thousand Island dressing.

Chopped hard-cooked egg, pickle, lettuce, salad dressing.

Scrambled eggs with onion, minced green pepper, minced dried beef or ham added.

Cottage cheese (put through sieve), currant jelly, or orange marmalade.

Cottage cheese, finely chopped prunes, or dates.

Pimento cheese, lettuce, chopped peanuts.

Cottage cheese, chopped vegetables, salad dressing.

American cheese, sliced tomato, sliced dried beef.

Cream or cottage cheese, thin radish slices, or red apple rings on Boston brown bread.

Vegetable

Celery, lettuce, watercress, sliced tomato, or cucumber, finely chopped, alone or with cottage cheese.

Shredded raw carrot, minced pickle, salad dressing.

Baked beans (mashed) catsup, chopped pickle.

Sliced cucumber with peanut butter.

Diced pickled beets, chopped hard-cooked eggs.

Novelty

Ground dates, nuts, moistened with fruit juice — lemon, orange, pineapple.

Equal parts butter and honey creamed, lettuce or watercress.

Sliced bananas, peanut butter, or currant jelly, dressing.

Equal parts peanut butter and homemade catsup.

Maple or brown sugar, chopped nuts.

Jellies, jams, conserves with cream or cottage cheese.

Peanut butter on raisin or fruit bread.

Chocolate Fudge

- 2 squares unsweetened chocolate (2 ounces)
- 2 cups granulated sugar
- $\frac{1}{2}$ teaspoon salt
- 1 cup evaporated milk
- 2 tablespoons butter
- $\frac{1}{2}$ teaspoon vanilla extract
- 1 cup nuts, if desired

Grate or chop chocolate fine. Cook sugar, salt, chocolate, and milk slowly until sugar dissolves, stirring constantly. Then cook over medium heat to soft ball stage (235° F.), stirring all the while. Cool. Add butter and vanilla. Beat until fudge begins to stiffen. Add nuts and continue to beat until crystalline. Turn into buttered pan. Or knead until soft and plastic, and press into buttered pan to $\frac{1}{2}$ inch thickness. Mark in squares. Makes $1\frac{1}{4}$ pounds.

Note: Chocolate Fudge may be made with cocoa instead of chocolate. Use $\frac{1}{3}$ cup cocoa in place of chocolate. Mix cocoa thoroughly with sugar and salt, then proceed as above.

Marshmallow Fudge: Increase chocolate to 3 squares (3 ounces). Cook, cool and beat until fudge begins to stiffen. Add 1 cup marshmallows cut into bits and continue to beat until crystalline.

Peanut Butter Fudge: Add $\frac{1}{3}$ cup peanut butter to fudge just as it is taken from heat. Cool and beat as above.

Cinnamon Fudge: Omit chocolate. In the last few minutes of cooking add $\frac{1}{4}$ teaspoon cinnamon to fudge.

Two-Tone Fudge: A delicious and attractive layered combination can be made as follows: Make a recipe of Chocolate Fudge, turn into a buttered square pan and level top. Then make a recipe of Cinnamon Fudge and turn into pan to cover layer of Chocolate Fudge. Mark in squares. Let set until firm. Makes about $2\frac{1}{2}$ pounds.

Quick Chocolate Fudge

- 1 6-oz. package semisweet chocolate bits
- $\frac{1}{3}$ cup evaporated milk
- 1 cup confectioner's sugar
- $\frac{1}{2}$ cup chopped nuts

Melt chocolate with milk over hot water and stir to blend thoroughly. Remove from heat. Sift in confectioner's sugar and stir until cold and smoothly blended. Stir in nuts. Drop from a teaspoon onto waxed paper. Allow to harden 4 to 6 hours. Makes about 24 pieces.

Honey Fudge

- 1 square unsweetened chocolate (1 ounce)
- 2 cups granulated sugar
- $\frac{1}{2}$ teaspoon salt
- 1 cup evaporated milk
- $\frac{1}{4}$ cup honey
- 1 teaspoon vanilla extract
- 1 cup nuts

Melt chocolate over hot water in the saucepan in which candy is to be cooked. Add sugar, salt and milk and cook over medium heat 5 minutes, stirring constantly. Add honey. Continue cooking over medium heat to soft ball stage (236° F.), stir-

ring all the while. Cool. Add vanilla. Beat until candy begins to stiffen. Add nuts and beat until crystalline. Turn into buttered pan. Mark in squares. Makes $1\frac{1}{2}$ pounds.

Cream Fondant

- 2 cups granulated sugar
- $\frac{1}{2}$ teaspoon salt
- 1 tablespoon light corn syrup
- 1 cup evaporated milk

Mix ingredients thoroughly. Bring slowly to a boil, stirring constantly. Then cook over medium heat to soft ball stage (238° F.), stirring all the while. Cool. Beat until creamy. Knead until smooth and plastic. Set in refrigerator in covered dish overnight to ripen. Makes 1 pound.

Vanilla Cream Fondant: After fondant is kneaded smooth and plastic, add $\frac{1}{2}$ teaspoon vanilla extract and knead just to distribute flavoring. Let ripen.

Maple Cream Fondant: After fondant is kneaded smooth and plastic, add $\frac{1}{2}$ teaspoon imitation maple extract and knead just to distribute flavoring. Let ripen.

Fondant Stuffed Fruit and Nuts: To prepare prunes for stuffing, pour boiling water over prunes to cover and let stand to plump and soften. Pat prunes dry with a paper towel. Cut prunes down one side and remove pits. Let fondant soften at room temperature. Knead slightly and cut off pieces. Shape and fill into pitted prunes. For dates, remove pits and fill with fondant. Put halves of pecans or English walnuts together sandwich-style with fondant filling.

Fondant Nut Balls: Roll balls of fondant in chopped filberts or other chopped nuts.

Coffee Creams

- 1 teaspoon soluble coffee
- $\frac{1}{3}$ cup boiling water
- 2 cups granulated sugar
- $\frac{1}{3}$ cup evaporated milk
- 2 tablespoons butter

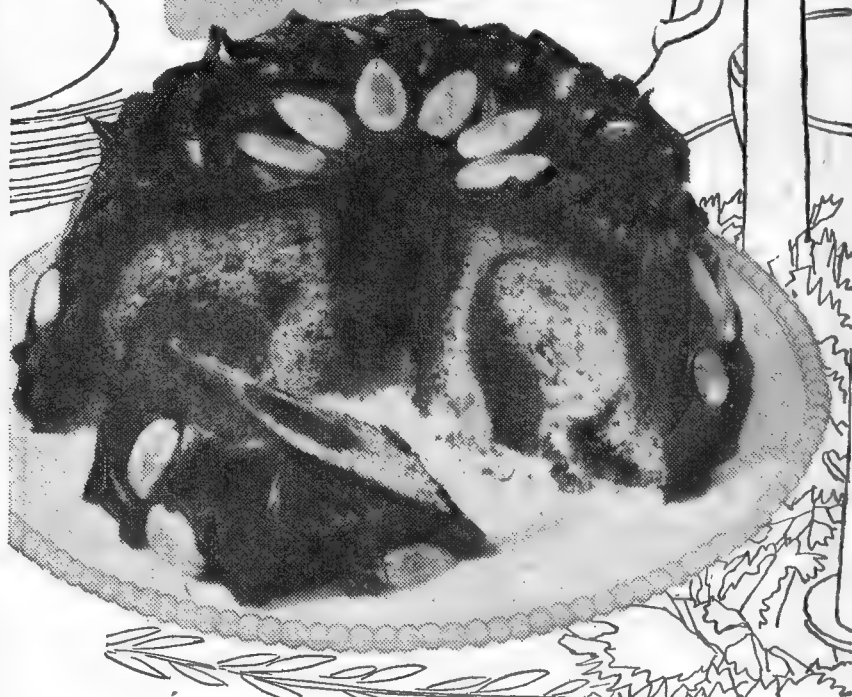
Dissolve coffee in the water. Mix thoroughly with sugar and milk. Cook slowly, stirring constantly, until sugar is dissolved. Then cook over medium heat to soft ball stage (238° F.), stirring all the while. Cool. Add butter and beat until crystalline. Turn onto a buttered board or marble slab and knead until smooth. Press into buttered pan. Mark in squares. Makes about 1 pound.

Date Nut Roll

- $2\frac{1}{2}$ cups granulated sugar
- 1 cup evaporated milk
- $1\frac{1}{2}$ cups chopped dates
- 2 cups chopped nuts

Cook sugar and milk over medium heat to soft ball stage (235° F.), stirring constantly. Add dates and cook to soft ball stage (236° F.), stirring all the while to blend dates. Add nuts. Cool. Turn into buttered pan. Knead until creamy and stiff. Shape in a roll. Wrap in waxed paper or aluminum foil and chill, then slice. Makes $1\frac{1}{2}$ pounds.

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Yes, Magic makes flavors rise to ecstasy while it's perfecting the light, silken texture of your cake! For assurance and supreme satisfaction whenever you bake, rely on time-tried Magic Baking Powder—it costs less than 1¢ per average baking!

MAGIC NEAPOLITAN CAKE

- 2 cups once-sifted pastry flour or $1\frac{1}{4}$ cups once-sifted all-purpose flour
- 3 tps. Magic Baking Powder
- $\frac{1}{2}$ tsp. salt
- 8 tbsps. butter or margarine
- 1 cup fine granulated sugar
- 2 eggs
- $\frac{1}{2}$ cup milk
- 1 tbs. milk

Grease an 8-inch angel cake pan and line bottom with greased paper. Preheat oven to 325° (rather slow). Sift flour, Magic Baking Powder and salt together three times. Cream butter or margarine; gradually blend in sugar. Add unbeaten eggs one at a time, beating well after each addition. Measure the $\frac{1}{2}$ cup milk and add vanilla. Add flour mixture to creamed mixture about a quarter at a time, alternating with three additions of milk and vanilla and combining lightly after each addition. Divide batter into three parts. Stir the 1 tbs. milk and melted chocolate into one part; stir almond extract, green food coloring and almonds into second part; sprinkle cinnamon, ginger

- $\frac{1}{2}$ tsp. vanilla
- 1 ounce unsweetened chocolate, melted
- $\frac{1}{2}$ tsp. almond extract
- Few drops green food coloring (or pink, if preferred)
- 2 tbsps. toasted finely-chopped almonds
- $\frac{1}{4}$ tsp. ground cinnamon
- $\frac{1}{2}$ tsp. ground ginger
- Few grains ground cloves

and cloves over third part and stir to combine. Spoon batters alternately into prepared pan. Bake in preheated oven 50 to 55 minutes. Cover cold cake with the following Chocolate Butter Icing; decorate with toasted whole blanched almonds.

CHOCOLATE BUTTER ICING: Cream 4 tbsps. butter or margarine; work in 2 cups sifted icing sugar alternately with 3 tbsps. scalded cream, stirring in 3 ounces melted unsweetened chocolate after part of cream has been added. Add 1 unbeaten egg and $\frac{1}{4}$ tsp. vanilla; beat until icing begins to thicken; beat in a little more cream, if needed, to make an icing of smooth spreading consistency. Spread immediately on cold cake.



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GOLDEN
SYRUP**

MUSTARD
GIVES THIS QUICK
Chili Sauce
A PLEASING
"NIP"



1½ qts. canned tomatoes,
or 3 lbs. ripe tomatoes
1½ cups chopped onions
1¼ cups chopped celery
1¼ cups chopped green peppers
4½ teaspoons salt
3 tablespoons sugar
½ teaspoon pepper
1 teaspoon Keen's Mustard
1 tablespoon Worcestershire Sauce
½ cup cider vinegar

If ripe tomatoes are used, peel and then chop. Combine with remaining ingredients, in order named, in a large kettle. Simmer, uncovered, 45 mins., or until quite thick. Pour into clean, hot jars and cover. Set on wire rack in a covered kettle, with boiling water to cover tops of jars 1". Boil 30 mins., from time boiling resumes. Makes 3 to 4 pts. K51H

Keen's
D. S. F.
MUSTARD

Let's Ask Aunt Sal...

ALTHOUGH the bulk of the questions directed to this column deal with problems of general interest to many homemakers, many touch on specific needs... like the procuring of a certain pattern, recipe or design. These I generally "throw open" to all readers for their individual help. And I must say I have been delighted how you good-hearted friends have jumped into the fray and given of your time and help. In the solving of these problems acquaintances have been formed among readers from various parts of Canada and some of you write me that you have so found congenial pen pals too. This is most gratifying I'm sure to all concerned.

Q.: Have any of the readers a crochet pattern for a pansy doily with the flowers in the centre? The numbers are 614 for doily and No. 724 for the chair set. They were originally published in one of the rural papers. I would gladly pay postage on these and return them after using. (Mrs. L. A., Nipawin, Sask.)

A.: Don't mail copies of this to me until you've written in first. No need to enclose envelopes when writing about this.

Q.: How do you make good cottage cheese with skim milk? I only use a coal stove on wash days. Would it be better to make the cheese on the coal stove than on the propane stove? (Mrs. K. T., Albright, Alta.)

A.: It is more easily made on a coal stove as you can keep the temperature low enough to prevent the soured milk from boiling. But by using a double boiler you can regulate the heat better. For a beginner a thermometer is useful (the temperature of the milk should be 95 degrees F.). One quart of milk makes one cup of cheese. When the heated milk curdles and thickens remove from heat and let stand in a warm place, then turn into cheesecloth or very fine sieve and strain. When curds are entirely drained and cool, moisten with cream and season with salt. Grated onions or green onion tops are a nice addition.

Q.: Is borax good for the hair? (Mrs. H. K., Lundbergh, Alta.)

A.: Borax is an antiseptic and cleansing agent and can be used when the water is too hard to be suitable for washing but if you use it when shampooing your hair see that you use it sparingly and that it is well dissolved in the water... don't use it directly on either your skin or hair.

Q.: What would you mix with cigar ashes to remove a white heat stain from highly polished walnut table? (Mrs. D. J., Vancouver, B.C.)

A.: Sometimes just the cigar ash alone will do the trick when applied with a chamois skin. I'd try that first and if not successful then combine with either spirits of camphor or essence of peppermint.

Q.: I would like to try my luck at making pictures in bottles. Can anyone send me any directions? (Mrs. H. C., Garlick, Sask.)

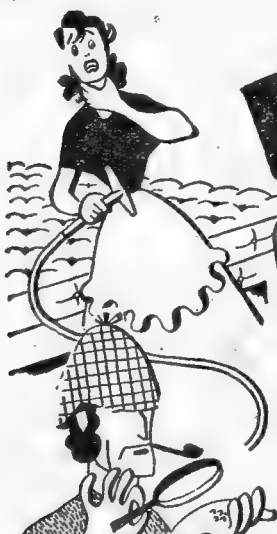
A.: I have never seen examples of this handicraft and it would be too complicated to explain it in this column. Comments from readers would be appreciated.

Q.: Lately I have been having trouble with my angel foods and daffodil cakes. They fall in the pan after removing from oven, although I bake them the proper length of time. (Mrs. A. S., Donwell, Sask.)

A.: I consulted a home economist about this and she stated that over-mixing or too short baking time or too low a tem-

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57

V-552



"Due to the large number of commercial announcements, we are going to dispense with the entertainment."

perature are the three recognized factors that make sponge cakes fall.

Q.: I have tried in vain to buy the Sunbonnet quilt pattern. Is there any reader who would care to loan or sell it to me? (Mrs. O. W., Edmonton, Alta.)

A.: How about it, readers?

Q.: Have you directions for bleaching wood after removing the painted surface? (Mrs. V. C. F., Woodpecker, B.C.)

A.: I talked to both professional cabinet makers and paint shops about this and they say, "Yes". Be sure first to remove every trace of the paint and then you can purchase a special preparation that will bring out various tones of color on the bare wood with very pleasing results. This is sold under different trade names... one of them being "Rez". Contact your nearest paint or lumber dealer about this.

Q.: Could you tell me how to keep heads of lettuce fresh throughout the winter? I have heard of canning it. (Mrs. N. S., Blaine Lake, Sask.)

A.: The only way I know of to preserve lettuce is to can it as "greens". Not even the instruction accompanying deep freezers recommend freezing lettuce.

Q.: Is there any place I can get an iron range built over into a more modern white enamel one? (Mrs. B. W., Lacombe.)

A.: Contact some of the "body shops" in Calgary as that is your nearest city. They tell me that they can do gas stoves but cannot recommend doing stoves that use wood or coal as these get too hot and the white finish will yellow. (Note: I will help you with your other questions if you send a stamped self-addressed envelope... my rule is only one question per letter!)

Q.: My mother used to put quick silver on the back of mirrors. I would like to know how this is done. (P. G., Thorsby, Alta.)

A.: I did a lot of research on this question two years back and all merchants reported they did not handle any preparation for this re-silvering of mirrors. Contact your nearest glass works and they can give you an estimate on doing over mirrors.

Q.: How do you remove prints from X-ray films? (Mrs. W. D. R.) (Repeat.)

A.: From Miss M. F., a nurse from Terrace, B.C., we get this comment: "In the hospital in which I worked we did this by using washing soda and water. This was more effective than hot water alone." (Thank you, Miss F.)

Q.: I wonder if there is a reader that would care to sell me a copy of the old U.F.W.A. cook book? (Mrs. V. Dersch, Camp 8, Slave Lake, Alta.)

A.: I hope Mrs. D. doesn't mind my affixing her full name and address. Anyone who can comply with her request please write to her direct.

Q.: I would like to know where I can get patterns and information on making hooked and braided rugs. (Mrs. J. P., Lethbridge.)

A.: Here are two new addresses of firms that put out free catalogues dealing with various types of handicraft. It might be that they deal with rug making too. These addresses were furnished by Mrs. M. L., Readlyn, Sask.)

Hobby Supplies & Handicraft, Corner 11th Ave. & McIntyre St., Regina, Sask.

Handicraft Supplies, 229 - 22nd St. E., Saskatoon, Sask.

Q.: I would like to see more recipes making use of sour cream and sour milk. Especially recipes for cakes, cookies and such. (Mrs. J. J., Leask, Sask.)

A.: I would, too! In fact I'm so keen to collect more tasty dishes using sour milk and cream that I'm making this question "my pet question of the month."

I shall choose the dozen best recipes and use them in the November issue of the Farm and Ranch Review. When sending in your pet recipe tell me if you would like to receive a snapshot of this lady that you are kind enough to name your friend... Aunt Sal.

Note: All readers are invited to send in their home-making problems to Aunt Sal, in care of the Farm and Ranch Review, Calgary, Alta. If you wish a private reply, enclose a stamped, self-addressed envelope. Kindly limit one question to each letter. There is no charge for this service.

The Dishpan Philosopher

A GRANDMA not too far away — and not too near, I hear you say! — so often is a friend in need she surely is a friend indeed. Not only will she come and sit, but often as she sits she'll knit. So little socks in good supply come off her needles as they fly. And all the special little cakes that every proper Grandma makes rank high among the childhood joys of lucky little girls and boys. And lots of tales all Grandmas know about the days of long ago, when things, it seems, were rather queer compared to days that now are here.

Though Grandmas, so some parents say, can do more spoiling in a day than they themselves would ever do in one whole week, or even two, most will admit that they have found a Grandma nice to have around.

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Modern Fleischmann's Fast Rising Dry Yeast keeps for weeks and weeks right on your pantry shelf. It's fast—it's ACTIVE. All you do is:

1. In a small amount (usually specified) of lukewarm water, dissolve

thoroughly 1 teaspoon sugar for each envelope of yeast.

2. Sprinkle with dry yeast. Let stand 10 minutes.
3. THEN stir well. (The water used with the yeast counts as part of the total liquid called for in your recipe.)

Next time you bake, insist on Fleischmann's Fast Rising Dry Yeast. Keep several weeks' supply on hand. There's nothing like it for delicious soft-textured breads, rolls, dessert breads—such as all the family loves!

CINNAMON BUNS

Makes 2½ dozen

Measure into large bowl
1 cup lukewarm water
2 teaspoons granulated sugar
and stir until sugar is dissolved.
Sprinkle with contents of
2 envelopes Fleischmann's
Fast Rising Dry Yeast
Let stand 10 minutes, THEN stir well.
In the meantime, scald
1 cup milk
Remove from heat and stir in
½ cup granulated sugar
1¼ teaspoons salt
6 tablespoons shortening
Cool to lukewarm and add to yeast mixture
Stir in 2 well-beaten eggs
Stir in 3 cups once-sifted bread flour
and beat until smooth; work in
3 cups more once-sifted bread flour
Turn out on lightly-floured board and
knead dough lightly until smooth and
elastic. Place in greased bowl, brush top
with melted butter or shortening. Cover and
set dough in warm place, free from
draught. Let rise until doubled in bulk.
While dough is rising, combine
1½ cups brown sugar
(lightly pressed down)
3 teaspoons ground cinnamon
1 cup washed and dried seedless
raisins

Punch down dough and divide into 2 equal portions; form into smooth balls. Roll each piece into an oblong ¼-inch thick and 16 inches long; loosen dough. Brush with melted butter or margarine. Sprinkle with raisin mixture. Beginning at a long edge, roll up each piece loosely, like a jelly roll. Cut into 1-inch slices. Place just touching each other, a cut-side up, in greased 7-inch round layer-cake pans (or other shallow pans). Grease tops. Cover and let rise until doubled in bulk. Bake in moderate oven 350°, 20-25 minutes. Serve hot, or reheated.



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Country Diary

NATURE is now bidding adieu to the receding sun. The quick, golden dawn, the shortened twilight, the sudden chill of the air in the shade, the brittle brown leaves and dry, pallid grass are all signs of it — fore-runners of the frost that inevitably comes riding on a witch's broom by night. There is a crispness and rustle to September days as they draw in. Just about now, before the silence of frosts has fallen on field and bird, there is a brief period of what might be called "rustling days". The rustle comes with ripeness, with that serene and wholesome withering which spreads over the prairie landscape where the sun, yellow as goldenrod, is as warm at mid-day as in July. Partridge and quail rake among the harsh, tinder-dry vegetable husks in the garden, hoping perhaps to find a forgotten ear of corn. Gophers and rabbits run in the crackling stubble. The light breeze stirs numerous sounds in the sun-burned poplars. Children shuffle and scrape their feet among the drift-fall in the ditch. Little by little Nature's own whispering symphony is forming.

September is the afternoon of the year. Though summer's heat is over [except for a day mislaid now and then] the full glory of autumn has not come yet. Trees stand still in the golden sunshine, and soon now the maples will begin to smoulder and the poplars take on a golden-yellow tint, but on these early September days they still hold the last bit of summer in their branches. The tide of life flows back from field to home again, the centre of interest at present as activity pours forth, and the nine-o'clockers step out on country road and paved street to answer the call of new thoughts and hopes and vague wonderings of the future. New clothes and books, new studies, new teachers make September a month of excitement for them.

Twilight is short on a September evening. If golden is the word for September day, then amethyst, a faint mauve shade, belongs to evening. When the moon rises night is soft and dusky, and the sky is spread all over with stars, like pearls. Keats wrote a famous sonnet beginning: "Bright Star! Were I as steadfast as thou art," and one understands these lovely lovely words when looking up at a sky full of stars, for there is security there, unknown anywhere else in the universe. The enveloping fears and terrors of man which we have come to regard as inescapable, become small, and pall before the magnificence of infinity. To the north the Great Dipper is rising as ever, turning like a celestial clock that needs no winding, harvest-full — a token to us who planted, and now happily

have reaped. For September is the month of culmination, of clearance and summing-up. This is seen when eyes turning earthward, the whole picture of achievement is displayed. Perhaps it has taken a lifetime, or more, to accomplish, the making of homes and landscapes, the cultivation of fields and sowing of crops, the reaping and steady replenishment of human needs. The picture is for all to see, whether one owns the window or stands on the road where the frame is boundless.

The Reading Public

In Indianapolis, Reporter Bruce Hilton stood on the street with dark glasses, guitar, a tin

cup, and a sign announcing: "I am not blind, deaf, dumb or crippled, and do not want any money," in 40 minutes collected 29c.

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Big tree programme completed in Sask.

OVER 2,000,000 seedling trees are being planted this spring under the program sponsored by the Department of Agriculture, according to W. H. Horner, deputy minister.

Under the program, free use of the Department's six tree planting machines is provided to farmers planting field and roadside shelterbelts. Farmers in 10 ag. rep. districts have asked for the use of the planters. In another six districts farmers ordering trees have made their own arrangements for planters.

All trees are supplied free by the federally-operated forest nursery stations at Indian Head and Sutherland, Mr. Horner pointed out. Each farmer pays the express charges to his station. When set a foot apart as recommended by forest nursery station officials about 5,000 trees are needed to plant a row a mile long.

Where a municipality, R.M., L.I.D. or co-operative organization wish to buy their own tree-planter they may obtain earned assistance from the Department in buying it. The machines cost about \$700 and the Department will pay half of its cost.

This is the second year that the Department has sponsored this tree-planting program, Mr. Horner explained. The total number of trees planted is about the same as last year and trees this year have been sent to 486 farmers. The largest number this year have gone to the Lucky Lake — Demaine — Beechy area where nearly 300,000 trees are being planted on 38 farms.

Another heavy concentration is in the Ogema district where

over 260,000 trees were ordered. Nearly 200,000 were sent to the Wynyard area and 180,000 to the Melfort district.

Field shelterbelt rows are planted about 20 to 30 rods apart with the first row required to be at least 150 feet from the center of the road. Most of the trees are carragana with smaller numbers of ash, Manitoba and elm.

Better land use is the object of field shelterbelt tree planting, Mr. Horner said. Extensive plantings have been established for 15 years or more in the Conquest area. On farms in that district the shelterbelts have caused a lowered rate of evaporation from the soil. Snow is held among the trees and prevented from blowing off the field. As a result there has been a noticeable increase in yield on the land within a considerable area adjacent to the trees.

IF WE CAN accept each adversity of life as a kick in the pants instead of in the face, adversity can become a step up the ladder of success. — Conrad Record.



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Class "A" Shares

Notice is hereby given that the Board of Directors has declared a dividend at the rate of 5% on the paid-up par value of Class "A" (Preferred) Shares (par value \$20.00 each).

This dividend will be paid on or about September 1st, 1952, to holders of such shares of record at the close of business on Saturday, July 26th, 1952.

By order of the Board,

D. G. MILLER,
Secretary.

July 9, 1952.
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BLADE Cultivate After Harvest

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Blade cultivation, as soon as possible after combining, leaves soil loose and mellow so that it more readily falls away from weed roots at the first spring blading. Most really clean blade summer-fallows after this wet spring are fields that were bladed just after harvest. This fall stroke often saves one spring stroke.

The Noble Cultivator is the only cultivator that can be equipped with straight blade to penetrate extremely hard ground after harvest.

- ★ KILL RUSSIAN THISTLE AND OTHER LATE-RIPENING WEEDS BEFORE THEY SEED
- ★ LEAVE STUBBLE STANDING TO HOLD SNOW WHILE SOIL IS LOOSENEED TO ABSORB SPRING RUN OFF
- ★ CUT OFF PERENNIAL WEEDS
- ★ SAVE A STROKE IN SPRING WORK
- ★ SHALLOW, EARLY AFTER HARVEST BLADING DRIES AND DESTROYS MANY GRASSHOPPER EGGS AND SAWFLY LARVAE

Write for circular on after-harvest blade cultivation to—

NOBLE CULTIVATORS



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"INCREASED YIELDS WITH AFTER-HARVEST BLADING"
Phone 22 or 30 NOBLEFORD, Alberta, Canada

HAVE you wondered why hogs need certain feed elements that cattle and sheep do not need? For instance, animal proteins, vitamin B-12, antibiotics, etc.

The cud-chewers not only do not need these things in their feed — some might be positively injurious to adult cattle. Antibiotics are an example.

And then hogs may be poisoned by urea. Cattle eat urea and make protein out of it.

The difference, of course, is inside the animals. Cud chewers have four stomachs, and one of them — the rumen — is a big fermentation vat.

This first, big stomach contains bacteria or micro-organisms which we'll call bugs. They're very small — you could get billions on a teaspoon. Some say they are of both plant and animal type.

The bugs make a factory of the first stomach. Rough feed in the rumen is turned into proteins, vitamin B-12 and B-complex vitamins.

That is the first stomach does this if the bugs are numerous

The cow's stomach is nothing but a big chemical vat

By HOMER HUSH,
in Wallace's Weekly

and properly nourished. And that's where new things are being learned about rough feed and cud-chewing animals

Since the bugs can break down rough feed — even cellulose — and make vitamins and protein out of it, you feed the bugs and they'll feed the cow.

Great opportunities are opened by the use of cellulose for feed. For cellulose is cheap. It's the principal part of wood, paper, corn stalks, husks, cobs, weathered hay, straw and all other crop residues.

So with new knowledge about the cow's rumen, and all of this cellulose around us, the experts are exploring new methods of feeding ruminants (cattle and sheep).

And they may revolutionize cattle feeding as protein-balanced rations revolutionized hog feeding 40 years ago.

How do you feed the bugs so they can make nutrients out of worthless-looking roughage? And increase feed value of good roughage too?

First, let's hear what nutrition experts say. Then look at practical feeding experiments. Then maybe, suggest things you can do now in your feedyard.

With regard to food for the bugs, Dr. E. Wise Burroughs of Iowa State College says:

"The nutritional requirements have been classified in three general groups." One is energy, he says, one is ammonia or protein material, and the third is minerals.

Starch and sugar (corn, molasses) are energy feeds. And oil meal or urea can provide protein material for the rumen bugs.

In his experiments, Dr. Burroughs found that some miner-

als for the bugs are provided by the ash from molasses and alfalfa. He also found that "complex minerals along with nitrogen greatly increased cellulose digestion."

Dr. Burroughs' findings came from tests with artificial ruminants. Let's see what feedlot experiments have found out.

Low-grade roughage, supplemented with a pound of molasses or 7 to 8 pounds of corn silage, equalled unsupplemented good roughages for putting on steer gains at the Ohio experiment station.

Ohio men are trying to find out "about mineral requirements of rumen micro-organisms" and what makes corn silage and molasses bring improved gains. Orville G. Bentley of the Ohio station says:

"Preliminary results suggest that the mineral constituents of alfalfa hay and molasses may be largely responsible."

When you feed poor-quality roughages, or when you feed such high-cellulose roughages as corn cobs, always feed a supplement.

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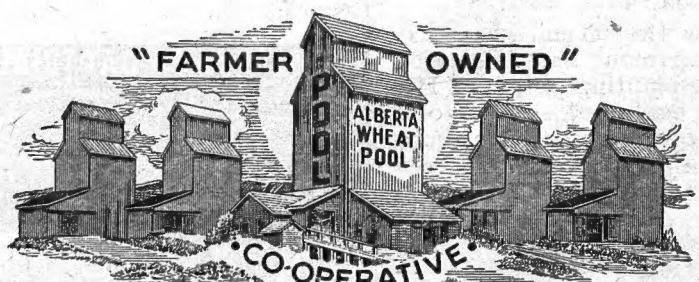
Co-operation...

A Basis for Self-Help

The co-operative movement provides a common ground on which all farm people can unite. It is primarily concerned with providing a high standard of service and giving its members fair and equitable treatment. It seeks to unite all farm people in a worth-while effort of self-help.

In their own interests, farmers should rally to the support of the many excellent farm co-operatives in this province. By so doing they will be strengthening the entire agricultural industry.

The Alberta Wheat Pool, as a leading farm co-operative, has an outstanding record of service to the farmers of Alberta. It deserves the interest and support of a larger number of grain producers.



"IT'S ALBERTA POOL ELEVATORS FOR ALBERTA FARMERS"

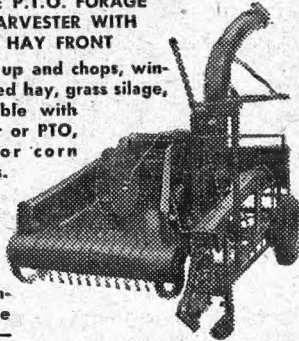
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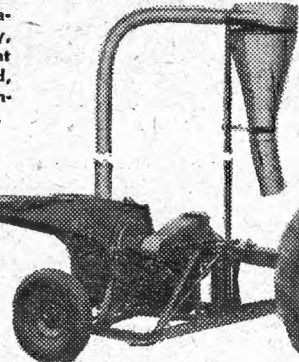
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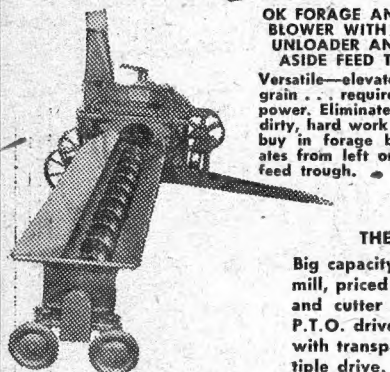
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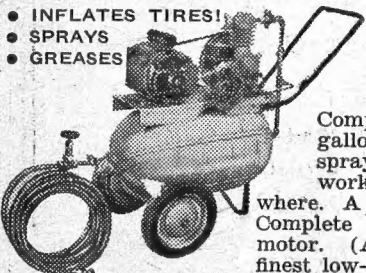
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- INFLATES TIRES!
- SPRAYS
- GREASES



Model ACW Complete, F.O.B. Calgary

163.50

Model AC (less Wheels)

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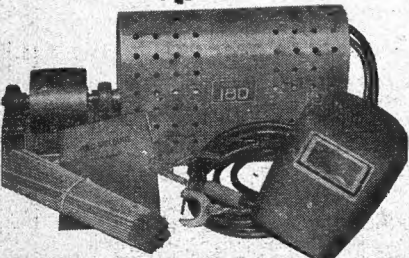
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Guaranteed for 1 year against mechanical defect or faulty workmanship. Farmers, you can now do your own welding and at small initial cost. Portable, can be operated off your tractor. Requires 10 H.P. or more. Self cooling generators. Dial-type rheostats. Built-in reactors. R.P.M. 2,200 - 2,500. MODEL 250 - Rated 200 amp. D.C. continuous duty. Maximum 250 amp. overload. Handles 1/16 to 3/16 rod very easily.

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Both model welders come complete with 1 head shield with protective lens, 1 electrode holder with 10 ft. cable; 1 ground clamp and terminal with 10 ft. cable, 10 lbs assorted welding rods; 1 valuable welding guide.



Write for complete information on these units.

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Cheaper to use on new construction. Save on lumber, requires only half as much boarding or sheathing as 26 guage sheets. Sheets are more rigid, 26% thicker. All 26" wide.

| Price | Sq Ft. Per Sheet | Price |
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| 6 ft. \$2.05 | 13 | 6 ft. \$2.15 |
| 7 ft. 2.40 | 15 | 7 ft. 2.49 |
| 8 ft. 2.75 | 17-1/3 | 8 ft. 2.85 |
| 9 ft. 2.75 | 19-1/2 | 9 ft. 3.25 |
| 10 ft. 3.35 | 21-2/3 | 10 ft. 3.55 |

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For Massey-Harris No. 222, No. 26, Short Reach Self-Propelled Combines and Cockshutt S.P. 109. First grade complete with new 9-16 Firestone tires and 2 new tubes. For better traction in soft or wet harvesting conditions. No spacers required. Utmost satisfaction guaranteed. Set of 2 wheels complete ready to bolt on. **\$159**
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IDEAL FALSE ENDGATE SELF-UNLOADING ATTACHMENTS

Complete kit for one wagon - 8' power drum supplied - can be cut to exact size. Bearings, clamps, false endgate frame, cable, bolts etc. **\$58.50**
Per complete set

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Equipped with canopy, crankcase guard, front pull hooks, direct lighting. Also has No. 24 CCU and Nordheimer angle dozer. At Edmonton.

\$8,000.00

2. CATERPILLAR DIESEL D4 TRACTOR

A standard gauge machine ready for your fall work. A good buy. At Edmonton.

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3. CATERPILLAR DIESEL D4 TRACTOR

Here's a big money-maker! Complete with IT4 Traxcavator shovel. Has 75-inch bucket and angle grader. Lighting and starting systems. 30-day warranty. At our Grande Prairie branch.

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Visit our Lethbridge branch and inspect this tractor right away. Has track roller guards and direct lighting system. A bargain for a man who needs a big machine at a fair price.

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The famous, economy-wise D2! Here is a machine ready to go. Has track roller guards, direct lighting. See it at once at our Red Deer branch.

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Our Dawson Creek branch has this one. Has crankcase guard and track roller guards, front pull-hook and Hyster towing

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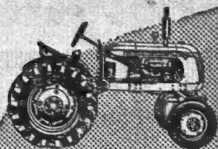
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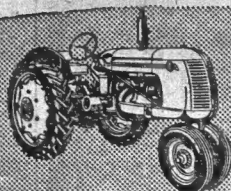
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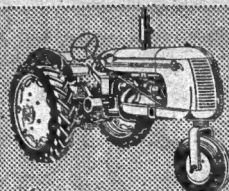
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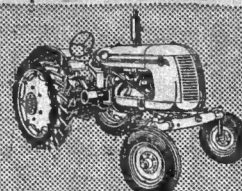
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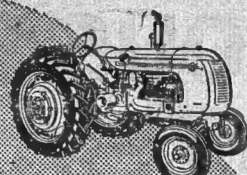
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Row Crop
Gasoline



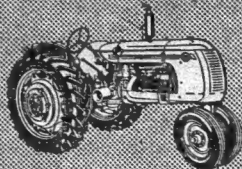
'30' 2-3 Plow
Single Row Crop
Gasoline



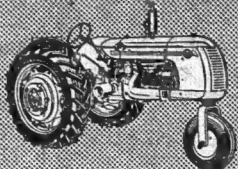
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Adjustable Front Axle
Gasoline



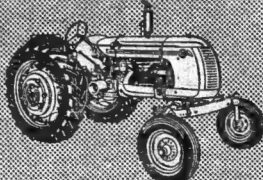
'D-30' 2-3 Plow
Standard
Diesel



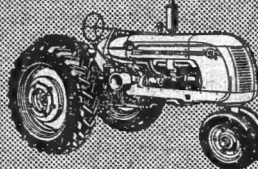
'D-30' 2-3 Plow
Row Crop
Diesel



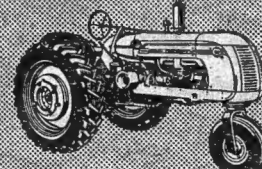
'D-30' 2-3 Plow
Single Row Crop
Diesel



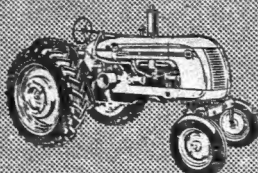
'D-30' 2-3 Plow
Adjustable Front Axle
Diesel



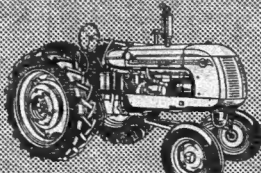
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Row Crop
Gasoline



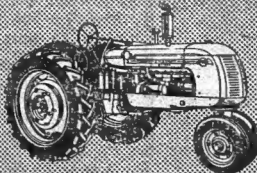
'40' 3-4 Plow
Single Row Crop
Gasoline



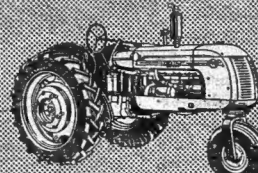
'40' 3-4 Plow
Adjustable Front Axle
Gasoline



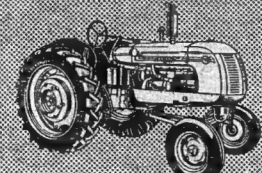
'D-40' 3-4 Plow
Standard
Diesel



'D-40' 3-4 Plow
Row Crop
Diesel

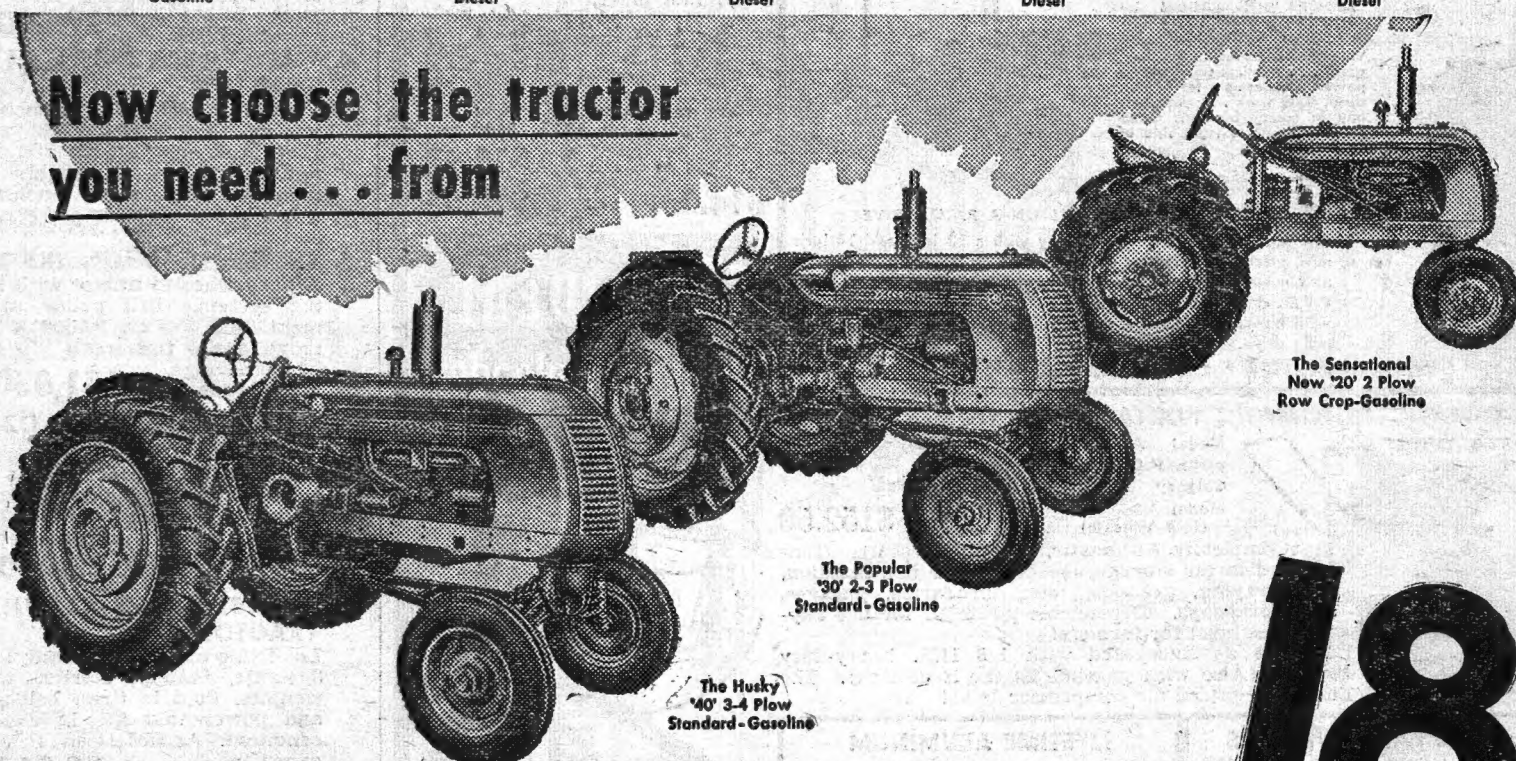


'D-40' 3-4 Plow
Single Row Crop
Diesel



'D-40' 3-4 Plow
Adjustable Front Axle
Diesel

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you need... from



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'40' 3-4 Plow
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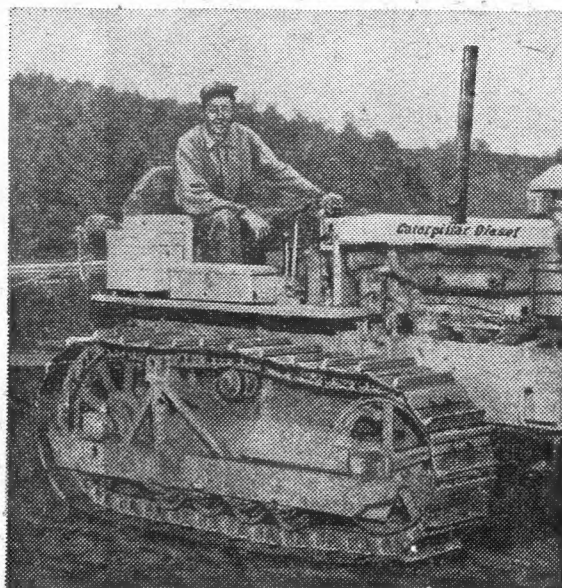


(Above) "Remarkable!" says Mr. L. H. Campbell, of Campbell Bros., Avonlea, Sask., owners of a 43-h.p. "CAT" D4. He goes on to say:

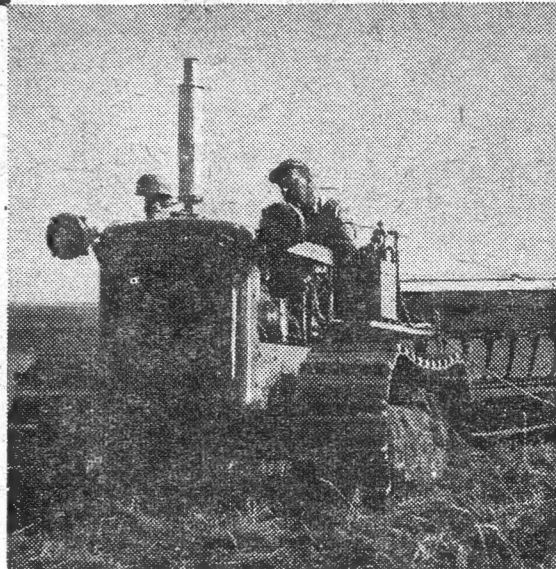
"No other machine its size could do this kind of work." You'd say the same if you saw how he used it, with ditcher attachment, dredging sloughs.

(Below) Mr. G. B. Shuck of Rochfort Bridge, Alta., reports on his "CAT" D4:

"It has worked over 22,000 hours in the past 10 years, discing, seeding, and pulling four 16" plows. Average diesel fuel consumption is 1 3/4 gallons per hour. Steering and master clutch have never needed repairs. I put on one set of link assemblies and track rollers and they are still in A-1 condition."



TILL YOU: HOW CATERPILLAR SAVES MONEY ON THE FARM!



(Above) "You can't beat 'CAT' D2 economy!" asserts Mr. Albert Anderst of Hilda, Alta.:

"I just finished seeding 50 acres of oats with a 12' press drill on only 10 gallons of diesel fuel. That's 4c per acre! Gas tractor owners won't believe how little fuel a D2 uses!"

(Below) "Repairs? Not one in 5 years!" says Mr. Jerome Bechard, Lejord, Sask., of his "CAT" D4 purchased in 1947.

"What's more, I can seed and till 100 acres a day at a diesel fuel cost of less than 3c per acre! That kind of economy means bigger profits!"



(Above) Master Farmer Emil Cammaert of Rockyford, Alta., a constant "CAT" user since 1920 has this to say about his 32-h.p. D2:

"Working in 4th gear with a 15' disc harrow, the D2 enables me to seed about 80 acres a day. Economy? Yes, diesel fuel consumption of 21 gallons per 14-hour day is what I call economy! And," adds Mr. Cammaert, "our D2 was a 'life-saver' in the fall of '51 when wet conditions put operations at a standstill elsewhere!"

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Please send me further information on the D2, D4, D6, D7, D8, "CATERPILLAR" Diesel Tractors.

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There's a "CAT"-built Diesel Tractor for every farm power need. Ask your "CATERPILLAR" distributor to show you the 32-h.p. D2 . . . the 43-h.p. D4 . . . the power-packed 66-h.p. D6 . . . the 81-h.p. D7 and the mighty 130-h.p. D8. All are built to "CATERPILLAR'S" uncompromising standards . . . all are built to do a better job for you.

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